

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fertile Env. Dept.

MARCH 15, 1961

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Forms for the April 15 issue will close Friday, March 24

Forms for the May 1 issue will close Friday, April 14. Mail copy to arrive at Chicago by these dates — no later.



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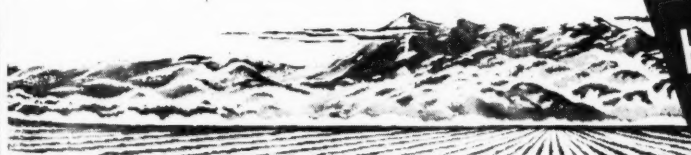
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Editorial

SPRING IS SELLING SEASON

So many dissenting voices are heard, in different sections of the country, to assertions of the political prophets of gloom at Washington that nurserymen must assay for themselves the true situation, as their prime selling season approaches.

Everyone is aware that the coal-mining areas of West Virginia have been depressed for a long time, and nobody doubts that Michigan has suffered from the decline in automobile production and that unemployment has risen there.

But from other states, so many heads of industries and trade associations, as well as individuals and newspapers, have emphasized continuing good times in their communities that a true appraisal is called for. There are still 20 times as many million people employed as there are millions of unemployed. Some business indices remain remarkably high, while the proponents of gloom emphasize but a few.

Most notable among the present business factors are the gross national income, which remains close to its all-time high; savings banks deposits, which were never so high, and the current cost-of-living commodities, which have remained almost stable for the past year. Hence most of the public is well fortified with cash and current income to make purchases, and the current price level stabilizes the buying power of their dollars.

These factors are the most important to nurserymen when they are facing the spring selling season. Coupled with the recent reported uptrend in employment with the advent of warmer weather and the upward turn in business expected at this time of the year, they lend support to each nurseryman's determination to rely on the old American practice of individual initiative. By each one's preparing thorough plans for the selling season and then

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undertaking energetically to contact customers, nurserymen may record a banner spring season, coinciding with the upturn from the talked-about recession.

COMMON NAMES

Since the nursery industry in the past few years has sought to require closer observation of botanical nomenclature, in the form of Latin names, in advertising, catalogs and other material directed to the public, by means of industry practice rules and government regulatory bodies, one wonders if there has not been a contemporaneous misuse made of common names.

Common names have sometimes been frowned upon as unauthorized colloquial terms, like slang. But many trees, shrubs and flowers—but by no means all or even most of these—have come to bear common names that are accepted as accurate, though they may vary by locality, section or country.

Then some well-meaning individuals thought that all plants deserved common names and proceeded to christen many, without authority and not much acceptance.

More lately one sees in catalogs common names that are uncommon and that one suspects are coined to differentiate one nurseryman's product from others, like an advertised brand or trade-mark. It may come to the point where we shall need trade practice rules about common names just as much as botanical, or Latin names.

SPRING COMPETITION

Of the various forms of competition which crop up during the spring planting season, one most likely to stir the feelings of the nurseryman is a sign "3 Junipers for \$5" or "Yews, \$2.59 each" in front of a gas station or other such sales outlet, particularly if it is just down the road. Usually the nurseryman's protests are directed to his wholesalers and trade associations, but one suggestion for meeting the competition head on is a common practice in other retailing lines.

The nurseryman can go home and select from his junipers some good plants that, because of shape or other condition, he would be willing to sell at the low price. Then he can display a few of them prominently near his entrance, so that the passing mo-

torists who see the sign at the gas station can see the nurseryman's, also. Most important, however, he should display, alongside the cut-price group, some top-grade junipers of the same size at his regular retail price, with a sign "Special Select Junipers, \$5," or whatever is his price.

Some passing motorists who stop at the nurseryman's will buy the cheaper junipers, if they will serve, and they will probably think they are getting a better buy than at the gas station—which is likely true—because the plants are bought at a nursery. Other buyers will choose the better plants, however, and the nurseryman will gain from attracting two classes of customers in meeting the competition.

Further ways can be found to meet the problems that arise in the spring from fly-by-night or other competition, if the nurseryman will observe and ponder on the way such problems are met by retailers in other lines.

SAVE ELMS AND MONEY TOO

Prompt response by arborists and nurserymen brought a retraction by a midwestern columnist who last month reported to his newspaper readers that a cure for trees affected by the Dutch elm disease had been found in the form of a chemical injection. The retraction did not carry the headlines which blazoned above the original report, though the statement was included that the only recommended way to fight Dutch elm disease is spraying and trimming the trees.

Doubtless the original erroneous report was read by well-meaning opponents of spraying, who protest the injury to birds and other forms of wildlife, for this same report has been spread by word of mouth, causing needless vexation and argument to municipal authorities and others engaged in saving trees from the Dutch elm disease.

Those scientists engaged in research connected with the Dutch elm disease have tried, or are trying, every possible means suggested, whether they be mistaken or not. Their statements were used to refute the report of the newspaper columnist and are available to refute the arguments of others. Arborists and nurserymen should be as diligent in spreading correct information as others are the reverse.

Census Reveals Rapid Nursery Growth

Dollar Volume of Production at Wholesale Prices More Than Doubles

By Fred H. Kilner

Sales of nursery crops valued at wholesale prices increased in the 10-year period from 1949 to 1959, it was revealed in the preliminary report of the 1959 special census of horticultural specialties recently released by the United States Department of Commerce, bureau of the census. The dollar value of all crops surged from \$71,052,719 to \$155,508,683.

The statistics in the report represent state totals from questionnaires mailed to growers in December, 1959, who had sales of \$2,000 or more. The report does not include sales of products other than those grown by the producer. Sales for products which were purchased and resold without growing on are not included.

In the special census of horticultural specialties for 1949, only growers producing and selling \$1,000 or more of nursery products were included. For this reason, data for 1959 and 1949 are not entirely comparable. The change in procedure for reporting reduced the number of growers but had very little effect on the total value of sales.

The number of nurserymen reporting in 1959 was 6,761 as compared with 4,643 in 1949. A breakdown by states of the number reporting is shown in the accompanying table.

Broad-Leaved Evergreens

Under the category of ornamental plants, broad-leaved evergreen, the census report shows sales increased from \$10,561,384 to \$33,635,409, with 3,733 establishments reporting in 1959, against 2,204 in 1949. The number of plants sold in 1959 was 32,798,425, against 13,000,322 in 1949. The inventory of plants as of January 1, 1960, was 64,378,887.

States accounting for the largest dollar volume gain and others with a significant increase are the following: Alabama, \$1,349,445 to \$2,421,676; California, \$2,544,400 to \$8,472,176; Florida, \$406,482 to \$3,398,945; Georgia, \$412,191 to \$884,285; Louisiana, \$459,834 to \$1,120,328; Maryland, \$108,212 to \$633,047; New Jersey, \$518,557 to \$1,722,450; New York, \$277,359 to \$1,380,755; North Carolina, \$460,029 to \$1,313,090; Ohio, \$206,008 to \$1,035,012; Oregon, \$378,420 to \$1,076,602; Pennsylvania, \$250,485 to \$900,397; South Carolina, \$260,793 to \$814,286; Tennessee, \$318,920 to \$1,144,981; Texas, \$691,038 to \$1,780,824, and Virginia, \$578,144 to \$2,109,926.

Deciduous Shrubs

In deciduous shrubs (not roses), sales increased from \$5,631,501 to \$9,073,240, with 2,941 establishments reporting in 1959 as against 2,203 in 1949. The number of plants sold in 1959 was 16,209,957 against 21,463,951 in 1949. The inventory of plants as of January 1, 1960, was 34,111,685. States accounting for the largest dollar volume gain were as follows: Illinois, \$349,793 to \$943,341; New Jersey, \$408,615 to \$727,798; New York, \$326,303 to \$865,194, and Ohio, \$481,295 to \$900,824.

Deciduous Trees

In deciduous shade and flowering trees, sales increased from \$4,739,344 to \$16,856,640, with 3,279 establishments reporting in 1959 as against 2,024 in 1949. The number of plants sold in 1959 was 7,533,984 against 3,919,474 in 1949. The inventory of plants as of January 1, 1960, was 21,335,160. States accounting for the largest dollar volume gain and others

with a significant increase are the following: California, \$324,467 to \$955,450; Illinois, \$234,969 to \$1,177,164; Iowa, \$180,092 to \$613,374; Maryland, \$59,753 to \$352,565; Massachusetts, \$104,731 to \$394,538; Michigan, \$61,311 to \$316,491; Minnesota, \$132,249 to \$378,777; New Jersey, \$534,909 to \$1,869,395; New York, \$466,593 to \$1,105,498; Ohio, \$307,033 to \$1,028,451; Oklahoma, \$35,444 to \$268,278; Oregon, \$355,054 to \$1,466,672; Tennessee, \$140,156 to \$897,666; Texas, \$240,564 to \$769,425, and Virginia, \$129,766 to \$1,447,494.

Coniferous Evergreens

In coniferous evergreens, sales increased from \$18,695,944 to \$36,350,733, with 4,080 establishments reporting in 1959 against 2,924 in 1949. The number of plants sold in 1959 was 18,497,064, against 12,403,482 in 1949. The inventory of plants as of January 1, 1960, was 59,557,724. States accounting for the largest dollar volume gain and others with a significant increase are the following: California, \$1,225,958 to \$3,530,449; Connecticut, \$1,061,044 to \$2,148,822; Illinois, \$1,335,355 to \$2,803,328; Indiana, \$521,661 to \$1,006,538; Massachusetts, \$527,746 to \$1,055,275; Michigan, \$591,810 to \$1,799,648; New Jersey, \$1,812,322 to \$2,379,688; New York, \$1,740,199 to \$2,522,957; Ohio, \$1,769,396 to \$3,722,588; Pennsylvania, \$1,241,270 to \$2,478,383; Rhode Island, \$315,203 to \$970,236; Tennessee, \$568,156 to \$1,827,799, and Virginia, \$266,519 to \$1,092,185.

Herbaceous Plants

In herbaceous plants, sales increased from \$2,614,703 to \$3,481,792, with 972 establishments reporting.

[Continued on page 76]

State Distribution of Nurseries Reporting 1949 and 1959 Census Data

STATE	1949	1959	STATE	1949	1959	STATE	1949	1959	STATE	1949	1959
Alabama	125	132	Iowa	68	75	Nebraska	27	30	Rhode Island	22	39
Arizona	32	35	Kansas	71	72	Nevada	2	2	South Carolina	67	74
Arkansas	41	40	Kentucky	46	70	New Hampshire	13	18	South Dakota	8	11
California	535	714	Louisiana	84	80	New Jersey	171	329	Texas	386	424
Colorado	38	32	Maine	9	19	New Mexico	18	13	Utah	15	18
Connecticut	102	148	Maryland	63	112	New York	237	387	Tennessee	147	172
Delaware	10	23	Massachusetts	67	139	North Carolina	94	158	Vermont	10	9
Florida	272	687	Michigan	229	327	North Dakota	13	13	Virginia	62	116
Georgia	91	104	Minnesota	70	102	Ohio	304	408	Washington	108	181
Idaho	11	13	Mississippi	36	39	Oklahoma	62	85	West Virginia	29	45
Illinois	161	251	Missouri	57	93	Oregon	185	237	Wisconsin	85	100
Indiana	141	162	Montana	10	13	Pennsylvania	209	409	Wyoming	...	2

Buying Habits Discussed in Northeast Marketing Survey

Reported by Fred H. Kilner

A special feature of the Eastern Regional Nurserymen's Association convention held at New York, N. Y., January 3 to 5 was the Wednesday afternoon program on the subject of marketing. First to speak at this informative session was Dr. Ronald Gatty, assistant professor of agricultural economics, Rutgers University, New Brunswick, N. J.

Referring to the results of the northeast marketing survey taken in 1958-59, Dr. Gatty discussed the subject, "Why and How Do People Buy Nursery Stock?" He related that the northeast survey covered 12 states, in which 1,500 homeowners were asked questions about purchases made in the previous year. Low-income groups were excluded from the survey.

Fourth of Families Plant Buyers

It was found that one fourth of the families interviewed had purchased nursery plants in the previous year. The average purchase in dollars according to type of outlet was as follows:

Nursery garden center	\$ 27
Chain store garden center	29
Nursery	38
Chain store	4
Roadside stand	13
Landscape architect	53
Soliciting agent	155
Mail order	19
All outlets	29

It was apparent, said Dr. Gatty, that sales were increased where more service was rendered.

The average sum spent yearly for nursery stock, according to family income, was as follows:

Income	Spent	Income	Spent
Under \$2,000 ..	\$ 6	\$6,000-\$8,000 ..	\$22
\$2,000-\$4,000 ..	18	\$8,000-\$10,000 ..	40
\$4,000-\$6,000 ..	22	Over \$10,000 ..	43
All families	\$30		

Source of Purchases

The per cent of purchases according to type of business outlet or solicitation was as follows:

Source	Per Cent
Nursery	40
Nursery garden center	20
Mail-order house	13
Chain store	10
Chain store garden center	4
Soliciting agent	4
Landscape architect	1
Door-to-door salesman	1
Other	4

Percentage of purchases made in spring and fall, according to type of outlet, was as follows:

	Per Cent	Per Cent
	Fall	Spring
Nursery garden center ..	28	72
Nursery	24	76
Mail-order house	27	73
Chain store	5	95

Deliveries and Sales Areas

Methods of delivery of purchases and whether there was a charge for the service or not are shown in the following data, on a percentage basis:

Method	Per Cent
Transported by homeowner	68
Truck by seller, no charge	11
Truck by seller, with charge	3
Mail, no charge	8
Mail, with charge	7
Other	3

Percentages of buyers traveling 1 to 30 miles or more to make purchases were as follows:

Miles	Per Cent	Miles	Per Cent
0 to 5	58	21 to 30	4
6 to 10	20	Over 30	10
11 to 20	8		

Dr. Gatty related that 83 per cent of the homeowners surveyed had made plantings on their property, while 17 per cent had never planted on their property.

Expenditure Ranges

Dollars spent by families for trees and shrubs since occupying the home, and the percentage distribution of buyers in various ranges of expenditures were as follows:

Purchases	Per Cent	Purchases	Per Cent
Under \$25 ..	24	\$200-\$300 ..	10
\$ 25-\$ 50 ..	13	\$300-\$500 ..	7
\$ 50-\$100 ..	20	\$500-\$1,000 ..	4
\$100-\$200 ..	17	Over \$1,000 ..	3

Results of the survey showed 73 per cent of the homeowners had made major plantings and 27 per cent had made only minor plantings. Periods of major plantings after home occupancy and percentages of owners so planting are shown in the following table:

Years in Home	Per Cent Planting	Years in Home	Per Cent Planting
1	48	5	9
2	15	6 to 10	9
3	8	Over 10	9
4	5		

The remodeling of house exteriors is a big market, said Dr. Gatty. Seventeen per cent of the houses were remodeled, with 9 per cent making a change in the landscaping.

The survey showed 16 per cent of the homeowners have a drawn landscape plan and 81 per cent have no plan; there was no response on this point from 3 per cent. Sixty-six per

cent of the plans were commercially made. Forty-five per cent of the homeowners without plans felt that a plan would be helpful.

The survey showed that 40 per cent of the persons interviewed intend to make further plantings, 54 per cent do not, and there was no response on this from 6 per cent.

The reasons given for not intending to plant and percentages of owners using the reasons were as follows:

Reasons	Per Cent
Property fully landscaped	51
Plan to move	14
Too strenuous	11
Too costly	9
No time	6
Other reasons	9

Maybe nurserymen can change the reasons listed above, commented Dr. Gatty.

To the question of what trees or shrubs are preferred for borders, preferences and numbers of persons stating each were as follows:

Border	Number	Border	Number
Hedge	180	Evgr. shrubs ..	42
Privet	104	Barberry	36
Roses	95	Hemlock	36
Decid. shrubs ..	42		

One half of the homeowners had no preference, said Dr. Gatty, and this would indicate they had no knowledge of the product.

Trees or shrubs preferred for yard planting and the number of persons who specified them are as follows:

Maple	220	Fruit trees ..	92
Spruce	110	Dogwood	87
Roses	106	Willow	82
Decid. trees ..	103		

Trees and shrubs preferred for foundation planting and the number of persons who specified them are as follows:

Yew	380	Juniper	110
Evergreen		Arborvitae ..	90
shrubs	250	Rhododendron ..	50
Azalea	120	Roses	40

Dr. Gatty said that the survey showed 33 per cent of the homeowners have made replacements; 60 per cent have not, and 7 per cent did not respond.

Reasons for Replacement

To the question of why replacement was made, the following answers were received: Dead or dying plants, 55 per cent; plants unsuited to landscape, 13 per cent; unattractive plants, 17 per cent; overgrown plants, 5 per cent; other reasons, 10 per cent.

Dr. Gatty said the survey showed over-age plantings are a potential market, as 12 per cent of the persons had over-age plantings; 61 per cent mature plantings, and 27 per cent new plantings.

A fact revealed in the survey was [Continued on page 46]

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Pennsylvanians Convene for Annual Conference

**Business Management, Research Report
And Garden Store Operation Are Topics**

By Robert P. Meahl

The Pennsylvania nurserymen's conference drew more than 225 trade members and guests to the campus of Pennsylvania State University, University Park, to attend the sessions scheduled for February 21 to 23.

After the group was welcomed to the campus by Dr. Herbert R. Albrecht, associate dean and director, agricultural and home economics extension, the educational program was opened with an address, "What Makes People Buy," by H. Bruce Bylund, professor of agricultural economics.

Professor Bylund stated that a person who is queried usually gives a single reason for a purchase, but that actually there is a series of reasons, or, rather, a series of conditions that must be met before a sale is made.

Among the conditions necessary are purchasing power, right price, motivation and availability.

Purchasing power is always a prerequisite, no matter what other conditions may be met. The price must be within given limits, neither too low, making the customer suspicious of the value, nor too high. The price must be reasonable and competitive.

Motivational Factors

Unless there is a desire for the product it will not sell. The feeling of securing a bargain is an effective motivation; or one may buy for self-esteem or because an object is important to him. Sentiment and aesthetic or artistic values are also motivational factors. The object must be available, but, in addition, the purchaser must know it is available.

Nurserymen need to stress what their products will do for the person buying. Homeowners often are not aware of this. In a study made by staff members of Pennsylvania State University, 54 per cent of the persons surveyed felt they needed more

material to landscape their homes completely and planned to do it someday. Forty-six per cent did not plan to do more planting, even though the interviewers felt 40 per cent of these actually did need more plants. Thus, approximately 70 per cent of those interviewed were potential customers for more plant material.

How can this group be induced to buy? Mr. Bylund said the majority of homeowners cannot visualize what landscape plantings will do for their properties, even if a landscape plan is furnished. He suggested that the use of sketches in perspective would help greatly in overcoming this lack.

Robert A. Rave and Louis F. Rave, Rave's Garden Center, Dallas, Pa., discussed "Successful Garden Store Operation." Speaking first, Robert Rave cited the importance of location. The garden store should be situated in a suburban area on a busy highway, but far enough out so that sufficient frontage is available. A location across from a shopping center is desirable. Leasing rather than buying the spot was recommended, especially when starting.

Before choosing a site, it is well to look at all garden centers within a 300-mile radius and also to check on other new stores. The building, preferably rectangular, should be constructed of economical material but should have an attractive front. A large lath area will be needed, plus a bed area in front where colorful plants can be displayed for eye appeal.

Careful buying of all materials is a must, and consideration should be given any product that can be sold for a profit. It is not always desirable to handle name brand materials, since other, comparable brands

[Continued on page 166]



A highlight of the Pennsylvania nurserymen's conference was the talk on garden store operation given by L. F. Rave (left) and R. A. Rave, Rave's Garden Center, Dallas, Pa.



Among the speakers featured at the Pennsylvania conference were (left to right) R. C. Bedger, Musser Forests, Indiana, Pa.; Jesse Flory, LaBars' Rhododendron Nursery, Stroudsburg, Pa.; L. E. Wissenbach, Squirrel Hill Nursery, Pittsburgh, Pa., and William Flemer III, Princeton Nurseries, Princeton, N. J.

Growers' Topics at Maryland Course

Talks Heard on Soils, Air Pollution, Insecticides, Production and Selling

By Harry W. Dengler

A full, fast-moving and varied program with no scheduled association business attracted 125 nurserymen and guests to the annual Maryland nurserymen's day, February 16, in the auditorium of the Student Union building, University of Maryland, College Park.

The affair was sponsored jointly by the Maryland Nurserymen's Association and the university's department of horticulture. Association President Ray Gustin, Jr., Gustin Gardens, Rockville, Md., presided during the morning session.

Soil Data

In presenting basic information about soils for nurserymen, Dr. James R. Miller, extension soils specialist, department of agronomy, University of Maryland, stated that the different types of soil formations result from the effects of climate, parent material, living organisms, topography and time.

Climate affects the fertility of the soil through the leaching of minerals caused by heavy rainfall. The various parent materials — shales, limestones or sandstones — determine what plants may be successfully grown, how the soil must be handled and what fertilizers must be applied.

Soils contain air, water, minerals and organic matter. The level of organic matter in Maryland soils varies considerably, because of erosion and improper cropping practices. Soils with suitable levels of organic matter are what all nurserymen are seeking

—these are soils that feel good to the hand and are best found in fields that have been in bluegrass sod for a long period.

The organic content of soils is classified according to a numerical scale in which 0.7 is extremely low and 2.5 or over is extremely high. Soils with good levels of organic matter provide better aeration, improved water-holding capacity and satisfactory retention of plant foods.

Parent materials break down in soils through weathering and chemical action. The soil particles are classified as sand, silt or clay depending on their size. Silt, Dr. Miller stated, feels exactly like flour.

What Essential Elements Do

Dr. Miller discussed at length the role of the major, secondary and trace elements as related to plant growth. Nitrogen, he said, results in fast, luxuriant, green growth. Green color in plants is impossible without nitrogen, since this element is a component of chlorophyll.

Phosphorus is essential for proper seed development and good root growth. Potassium greatly improves disease resistance and plays a vital part in the translocation of foods from one portion of the plant to another.

The availability of the various trace elements, important to plant growth, is primarily dependent upon the lime balance in a soil.

The pH, or acidity index of a soil might be likened to a measuring

stick ranging from 0 to 14. A soil measuring zero would be as acid, or as sour, as one could find, while 14 would indicate a soil as alkaline, basic or sweet as possible. A rating of 7 would be neutral on the pH scale. Different crops have different pH requirements and it is important that nurserymen thoroughly understand these needs.

Three types of lime are generally used to correct soil acidity when needed, Dr. Miller continued. They are ground limestone, or calcium carbonate; burnt lime, or calcium oxide; and hydrated lime, or calcium hydroxide.

Burnt lime and hydrated lime react quickly—often in a matter of minutes—when added to the soil. Ground limestone reacts much more slowly, depending upon the size of the particles; the finer the lime, the quicker the reaction in the soil. Fifty-six pounds of burnt lime or 74 pounds of hydrated lime are the equivalent of 100 pounds of ground limestone in their effect upon the alteration of soil acidity, Dr. Miller stated.

In many cases, both lime and fertilizers must be added to the soil to get best results with growing nursery crops. Both must be mixed thoroughly into and throughout the soil, especially with soils for greenhouse use.

Dr. Miller showed colored slides indicating the development of root systems with various depths of fertilizer and lime placements. It is possible, he illustrated, to get either shallow or deep root systems depending upon the various depths at which the fertilizer and lime are placed.

Air Pollution

Dr. Robert H. Daines, department of plant pathology, Rutgers, the State University, New Brunswick, N. J., next discussed air pollution as it relates to growing crops. Although air pollution damage to vegetation dates back about 100 years, the problem did not become acute in New Jersey until the late years of World War II, Dr. Daines noted.

In 1944 an unusual pattern of foliage injury was observed on many cultivated crops, ornamentals and native plants in two areas on the New Jersey side of the Delaware

[Continued on page 66]



Participating in the Maryland nurserymen's day presented February 16 at the University of Maryland were (left to right) Carl Orndorff, secretary-treasurer, Maryland Nurserymen's Association; C. M. Akehurst, M. N. A. vice-president; Dr. James R. Miller, University of Maryland, and P. W. Cornell, C. R. Burr & Co., Manchester, Conn.

Fashions in Gardens Shown on Long Island

By Donald W



Anton Hren Nurseries, Huntington Station, surrounded the walls of a spacious, formal flagstone patio at the Long Island flower show with flowering shrubs and narcissi.

For the first 14 garden shows presented by the Long Island Nurserymen's Association, there was no professional manager; the shows were small and had no budget. Several years ago the exhibitors covered one acre of floor space, giving a hint of what was to come. This year, Mark Eaton, Glen Head, L. I., a L. I. N. A. member, managed the largest garden show ever held on Long Island on a professional basis.

Barring snowstorms and blizzards, a record number of residents of Long Island were expected to view the exhibits and products of their local nurserymen than ever before. The show occupied three acres of floor space at the Roosevelt Raceway, Westbury, L. I.

The dates of the show presented one great problem of forcing plant material into bloom. Even with good conditions, difficulty would have been experienced in preparing the material for February 18 to 26. It was one of the earliest periods a garden show had been held in the northeastern part of the country. With this task facing him, Tom Eaton did an excellent job, despite adverse weather during the forcing period.

It can be said now that Long Island has reached the "big time" in garden show presentation by having 31 garden settings, 10 plant society and public service exhibits and 34 trade displays covering two floors of the raceway grandstands.

Cooperative Efforts

In addition to the father-son efforts of Mark and Tom Eaton, those of Donald F. Pollitt, Landscape Associates, president of the L. I. N. A.; Joseph Clark, Lewis & Valentine Nurseries, Inc., Greenvale, and George Hren, Anton Hren Nurseries,

Huntington Station, were directly responsible for the success of forcing plants and the general organization.

Plant contributors were many. All of the sod used was donated by Louis De Lea Nurseries, Inc., East Northport. The rustic fencing that formed the backdrop for many of the exhibits was furnished by Suburban Nurseries, West Hemstead. Walton Scherer, Northport, provided gardens with aquatic plants and circulating pumps, plus much specialized information pertaining to their uses. The department of ornamental horticulture of the State University Agricultural and Technical Institute, Farmingdale, provided the plant-forcing space in the conservatories and greenhouses on its planting fields campus at Oyster Bay.

There was no official ribbon cut-

ting to open the show. In place of this ceremony, Mark Pollitt, son of Donald F. Pollitt, signified the opening by chopping down a cherry tree. This novel twist was an observance of Washington's birthday and followed a welcoming address presented by Holly Patterson, Nassau county executive.

The theme, "New Fashions in Gardens," was carried over from last year's show; manikins depicting the latest in spring fashions for women were shown in many of the exhibits to provide ideas for the coming indoor-outdoor living season many Long Island residents enjoy.

A garden show calendar listed the events of interest for each day, providing visitors with opportunities to hear free lectures on flower ar-

[Continued on page 54]



In this bilevel alcove garden with a stucco wall and 3-tiered fountain at one side, Hicks Nurseries, Westbury, designed the planting, shown at the Long Island flower show, to provide seclusion.

Tips for Better Landscapes

Vines for Home Entrances — Part I

By Clarence E. Lewis

Department of Horticulture, Michigan State University, East Lansing, Mich.

Vines are often planted just to conceal a blank wall or other section of a home, and the vine chosen is not selected for any purpose beyond that of coverage.

After a number of years, vines become thick and dense, almost to the point of becoming a foundation planting, as shown in illustration A. In this case, the winter creeper (*Euonymus fortunei*) and English ivy (*Hedera helix*) have been used not only to conceal the brick, but to give a contrast of texture as well. This is a north exposure. Illustration B shows how both euonymus and hederas cling to a brick surface—by rootlets. Pictured are the rootlets of English ivy.

The winter creeper was planted in front, but must be kept from going onto the shingled second story by a good cutting and thinning operation once or twice a year.

The English ivy, originally planted to conceal a drainpipe on the west side of the house near the front, has grown sufficiently to come around to the north side and provide additional weight to the corner. The use of two different vines is not recommended for most small homes, however, nor should vines be allowed to dominate to the point of being objectionable.

The effective selection and placement of vines can eliminate the need of shrubs in a foundation planting, or reduce their number. This is

doubly true if there are large trees to complement the home. However, an objection to providing a thick coverage of evergreen vines is that sparrows are likely to use it as a nesting place. This is particularly objectionable in locations where persons must enter or leave a doorway beneath nests of sparrows.

Occupy Little Space

The advantage of using vines as the major part of the foundation planting is that they consume very little of the horizontal area, and usually a clean connection between the home and lawn is realized. Vines might be used to advantage when the home is close to the sidewalk or road. The latter situation has become a problem in recent years, when roads have been widened so that frontages have been reduced to the point of not having sufficient space for a planting of trees, or even—in some cases—shrubs.

Other vines that may be used to give weight to the corners of homes includes the bower actinidia (*Actinidia arguta*), possibly the bittersweets (*Celastrus*), hydrangea vine (*Hydrangea petiolaris*), Boston ivy (*Parthenocissus tricuspidata*) and perhaps Japanese or Chinese wistaria.

The bower actinidia, bittersweets and wistarias have no means of clinging to a brick or stone surface

and must be tied in position. The hydrangea vine and Boston ivy, of course, adhere to a solid surface by rootlets and by tendrils with suction disks, respectively.

Illustration C shows the attractive leaves of the bower actinidia, which are not only large enough to provide a feeling of weight, but are a rich enough green to add quality to a landscape scheme. The red petioles also add to the appeal of this vine. The application of such vines requires a yearly pruning operation and in some cases pruning twice a year.

I question the advisability of using vines on wooden houses, because of the problem of painting. Even if frames are provided so that the vine may be removed, it is not always recommended. Under such conditions the vine tends to hold moisture on the wood, causing possible decay, or it dictates that a painting job is needed more often than is ordinarily necessary.

Other possible vine combinations for use where planting space about the foundation is restricted can be made with the 5-leaved akebia (*Akebia quinata*), for a finer or medium texture, and a coarse-textured vine for the corner, such as bower actinidia or American or European bittersweet. None of these vines have the ability to cling to a solid surface, so must have an open structure on which to cling. They can be tied, also.

The akebia is well adapted to the shade of the north side of a home and has the tendency to hold its leaves much longer in the fall. As a ground cover in a protected area it can retain its foliage well into the winter and become semievergreen.

Other vines for the shade are *Actinidia arguta*; *Euonymus fortunei* (the winter creeper) and its many variations; *Hedera helix* (English ivy) and its variants, which number more than seem necessary; some honeysuckles (*Lonicera*), and Boston ivy and Virginia creeper (*Parthenocissus tricuspidata* and *P. quinquefolia*), along with several of their varieties, such as Veitch, Engelmann, and the highly useful Low's, or geranium, ivy (*P. tricuspidata lowii*).

Illustration D shows the over-all



Illustration A—Vines can form the major part of a foundation planting, as do the English ivy and euonymus shown here.



The foliage and means of support of a few vines: Left to right, (illustration B) rootlets of hederas; (illustration C) *Actinidia arguta* foliage; (illustration D) leaves of Low's ivy; (illustration E) tendrils and suction disks of Low's ivy.

appearance of geranium ivy, and illustration E shows the means by which it climbs—tendrils and suction disks. This variety has a much finer texture than the species, Boston ivy, and is better adapted to many home plantings, since it does not dominate the architecture, or the fine stone and brick that it should only partially conceal.

Clematis

Clematises are not suited for use on the front of most homes but they can be well adapted to homes of the cottage type, with their picket fences, lattices and front courtyard entrances. Clematis Mme. Edouard Andre, shown in illustration F, produces an effect entirely different from that of a dense, tight, clinging English ivy.

Its individual flowers are large, but its rich green leaves are not abundantly displayed. One usually does not wish a rampant, sprawling vine for a trellis, a fence or some other part of the front entrance. The sparse arrangement of leaves permits the wood to be seen, thus making the vine very much a part of the house and its surroundings.

One of the things a person should guard against is using certain clematises, such as the purple-flowered Jackman, the lavender-blue Ramona, the plum-colored Lord Neville or the bicolor (crimson and violet) King Edward VII, against a red or off-red house. If the house is white, of course, there is no problem. This point is particularly important because of the long flowering period of many of the clematises.

One disadvantage of using such vines as clematis, polygonum or actinidia is the absence of leaves during the winter. This deciduous atmosphere, however, is in keeping with the over-all effect of a salt-box house, or a cottage type. A less vigorous clematis, such as the one shown in il-

lustration G, could be used in such an environment.

Never should a person allow himself to be carried away and make addition after addition to the front entrance of such houses.

Many of the antique shops designed to create a colonial atmosphere are planted in good taste. There are others, however, that could improve their front plantings to the point of inducing more people to stop and look—and maybe even make a few purchases. It is an area that could be explored more thoroughly by imaginative landscape designers with good taste and an appreciation of plants' historical background.

This discussion will be completed in the April 15 issue.

MOUNTAIN LAUREL

The mountain laurel is not a true laurel, which is a small evergreen tree found on the shores of the Mediterranean, among wild olives and Italian cypresses. As a greenhouse plant

it has been known in England for centuries and thus to those travelers to the American colonies. There in the southern Appalachians, two or three centuries ago, a plant was found whose dark green leaves resembled those of the true laurel. By the Indians it was called the spoonwood, because its leaves served as an eating instrument. When Peter Kalm sent specimens to Linnaeus, about 1750, the latter established a new genus and called the plant *Kalmia latifolia*.

Among farmers it is sometimes called mountain ivy, though it is not an ivy. The southern highlanders sometimes called it calico bush, because of the pattern of the flowers. Some botanists have tried to rechristen the plant American laurel, but in common speech it is still the mountain laurel, reaching its best development in the southern Appalachian mountains.

BEGINNING a new firm, Saville Landscaping Service, is Chris Saville, on route 8, Greenville, Tenn.

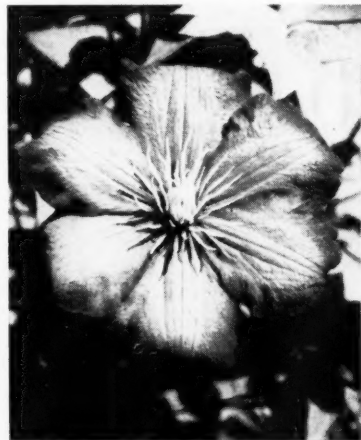


Illustration F—The large, soft red flower of the Mme. Edouard Andre clematis is the choice of many.



Illustration G—There is a certain landscape quality to the sparse foliage and colorful flowers of clematis.

Virus Diseases of Apple Trees

Reported by Irving G. Moore

Growing seriousness of the problem of virus diseases in orchard trees was brought to the attention of members of the Illinois State Nurserymen's Association in a special session during the group's convention at Chicago in January. Accumulated data have shown that several apple virus diseases are increasing in spread in the United States and that virus infections result in considerable loss in revenue to the apple grower.

Prior to the presentation of addresses by three guest speakers, Dr. R. J. Shay, head of the department of botany and plant pathology at Purdue University, Lafayette, Ind., moderator for the period, gave a brief introduction to the subject. Commenting that prior to 1946 the emphasis had been chiefly on virus diseases in stone fruits, Dr. Shay declared that attention now is centered on virus effects on apple and other plants in the malus group.

Propagating Danger

Virus infections are carried by the plant systemically, in all cells; carried in all propagating material, and transmitted to whatever stock, clonal or scion, is used with it. Current knowledge about virus infection is being brought to the special attention of nurserymen as the persons most concerned with the maintenance of woody stock plants, the speaker noted.

The importance of using virus-free stock in propagation work is apparent when it is considered that problems created may extend over many years. Virus infections are cumulative and reduce other plant functions. Root growth or top growth can be affected, and plants may become increasingly susceptible to cold, drought or moisture conditions.

Fifteen years ago it was not known that many species of malus were contaminated, because symptoms are not always evident. There are great differences in malus sensitivity to viruses. Until affected stock is united with a more sensitive species, virus infection in the first is not always evident. Some varieties are symptomless carriers.

Incompatibility

One of the evident symptoms of virus presence mentioned by Dr. Shay was that of incompatibility between scion and understock. This is seen in the difficulty of grafting cer-

tain varieties on Malling stock. The latter may have a virus that causes failure of bud union or faulty union with sensitive species. Faulty union may not become evident for some years.

Apple trees worked on Virginia crab apple having virus fail, while they are successful on virus-free Virginia crab apple. Virginia crab apple stock is susceptible to stem-pitting virus carried in scions. Some McIntosh and other apple variety scions contain a virus that is lethal to clonal Spy 227 stock. Susceptibility of certain varieties to a particular virus has led to their use as indicator stocks to determine presence of infections.

Dr. Shay brought up other virus problems familiar to the nurseryman, such as phloem necrosis and the Dutch elm disease, now undergoing extensive study, and the virus affecting strawberries which almost destroyed the strawberry-growing industry. Use of *Fragaria vesca* to

index plants for virus infection and the development of certified stocks has now put the business back on its feet, Dr. Shay pointed out.

Quarantine Efforts

W. H. Wheeler, plant quarantine division of the United States Department of Agriculture, Beltsville, Md., then gave a survey of the development of the present provisions of the nursery stock, seed and plant quarantine 37 as they affect the importation of certain fruit varieties and their understocks.

As of July 1, 1930, seedling stock of apple, pear, quince and Mazzard cherry were excluded from importation. On July 30, 1931, Mahaleb cherry, Myrobalan plum and other fruit stock seedlings were excluded.

Between 1939 and the earlier dates when seedling understocks were prohibited entry, vegetatively propagated understocks were admitted under

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The Role of Viruses in Crab Apple Propagation

By J. R. Shay and G. I. Mink

Department of Botany and Plant Pathology, Purdue University, Lafayette, Ind.

The increase in use of flowering crab apples in landscaping residential properties and parkways has heightened the interest of propagators in producing trees with built-in size control. One method of controlling the height and spread of commercial apple trees is the use of dwarfing rootstocks. Commonly used dwarfing stocks are the East Malling clones IX and VII. Attempts in the past to bud or graft certain flowering crab apples on these vegetatively propagated rootstocks resulted in failures during the early growth stages in the nursery row. Recent research in the United States and England indicates that these failures are due to the extreme sensitivity of these malus species to one or more viruses carried in the East Malling stock.

One of the viruses involved is called chlorotic leaf spot. This virus is rather widely distributed in commercial apple trees in the United States and it is present in practically

all stools in propagating beds of E.M. VII and E.M. IX rootstocks that have been closely investigated. The virus does not express symptoms in the young layers of the East Malling stocks, even though it is present throughout the roots and stems of these plants. The presence of the virus is indicated when a variety that is sensitive to the virus is budded or grafted to the infected root or stem of the rootstock.

Symptoms

Symptoms in the sensitive scion range from failure to establish union of the graft to dwarfed, distorted, chlorotic-spotted leaves and necrotic-spotted or streaked inner bark on the shoot growth of the scion. Virus investigations at the Purdue University agricultural experiment station and at the Washington state agricultural experiment station indicate that the following flowering crab apple species and varieties are

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Are There Profits in Rare Plants?

By William Flemer III

Many nurserymen are convinced that there is little financial gain to be accomplished by growing or stocking rare plants. A few do grow them, but do so only because they like certain groups of plants and grow these despite the feeling that they are losing money from that part of their business. Yet, there are some highly successful nurseries which do handle rare plants as a part of their variety list and which not only turn a good profit on the sale of the plants themselves, but also reap some valuable business bonuses on the side. It is the purpose of these notes to illustrate how this can be done.

Of course, the term "rare" is a relative one, and it is wise to define it for our purposes. In this case rare is taken to mean any species which is not widely known or produced in the trade, but which may not be, and often is not, new to the industry. Although a new species or horticultural variety is, of course, rare when first introduced, a plant like *Franklinia alatamaha*, which has been known since 1770, is still definitely rare in the nursery trade and unknown to much of the gardening public. So rare plants are not necessarily new plants.

Offer Better Profit Margin

There are a few reasons why rare plants can be a source of increased profit for the neighborhood nursery which stocks them. First, because of their rarity this class of plants is not competitively priced, as is the commoner material, so a fair profit is much easier to secure. "Taxus Sale — 3 Yews for \$5.00" and similar signs are beginning to appear with increasing frequency as production of common items catches up with demand, but they are never seen with *Rhododendron mucronulatum*. Similarly, individual rare plant varieties do not sell in large enough volume to attract the mass market and food store outlets, so the neighborhood nursery need not fear competition from this quarter, as in the case of the commonest conifers and broad-leaves.

Handling rare plants is a profitable way to give the nursery the prestige which can be skillfully translated into a more comfortable profit margin. "Jones' Rare Plant Nursery" can get a fairer price than "Pete's Plant Market — Bargains," even though all of the varieties handled by

the latter are also important varieties for the former. The addition of some good rare plants which can be handled at a profit themselves thus also improves the profit on the "bread and butter" items.

Advertising Tool

Finally, handling rare plants can be used as an important advertising tool. Customers who come to an attractive, well-run plant market for a specific unusual plant almost never buy just that one plant. Once they have been attracted to the market, impulse buying will induce them to purchase other plants which look especially attractive, and the sales personnel have a golden opportunity for tie-in sales. Example: "Why don't you plant a few dozen Spanish bluebells with your new Japanese snowbell, Mrs. Smith? They both bloom at the same time and create a beautiful picture." The lure of finding "something different" will attract customers who drive past the run-of-the-mill salesyard, well-to-do customers who can and do make sizable purchases.

There are a few pitfalls which should be carefully avoided in handling or growing rare plants. The most insidious one is the owner's real enthusiasm for a certain plant or plants which leads to growing or buying far more than the local mar-

ket will take. A new plant should be stocked conservatively until the sales figures show what the annual demand will be.

Another mistake is to stock plants which really do not thrive in that particular area. Example: It would be a mistake for a midwestern plant market to stock a collection of heather varieties. Even if they could be effectively displayed in the market and sold well, midwestern soil and climatic conditions cause heather to be a complaint-maker.

It goes without saying that rare plants added to the variety list must be of real garden merit. There is no point, for example, in stocking a great list of bush honeysuckle varieties or mock orange species, all of which are inferior duplications of the best horticultural varieties. Rare plants selected should be truly distinctive.

Selection Pointers

Here are some pointers in selecting unusual woody plants to add to the nursery variety list. If there is a good arboretum or plant collection in your area, take time to visit it at different seasons and note down on small library cards the name and characteristics of varieties which show garden merit. Consider stocking varieties which bloom out of the

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Cornus kousa, which blooms a month after the native *Cornus florida*, is a desirable unusual plant to add to the nursery variety list.

The Next Ten Years

By Sidney B. Hutton, Jr.

We have enjoyed in the past decade the finest 10 years of prosperity that this country ever had, and it has fortunately been reflected in the nursery business. Actually, there are only minor changes in the way we are doing business now compared to the way we operated in 1950. However, I believe that there have been subtle influences at work on our industry during this 10-year period that are going to become increasingly visible in the next 10 years. In 1970, changes in the way we will be doing business compared to methods of 1950 will be much more pronounced.

During the past 10 years the wholesale producer who had a product of reasonable quality and made the least bit of effort to sell it has prospered. The landscape nurseryman, too, has done well; in fact, he has perhaps done better than any other segment of our industry. Cash and carry, too, has developed tremendously since 1950, and yet I have seen little evidence that it has been profitable. True, a few garden centers seem to be doing quite well, though often I have noticed that they have a tidy landscape business helping to support the operation. Cash and carry has been the big growth area in dollar volume, but profitwise it has been rather skimpy.

Another segment of our industry is particularly close to my own business; that is mail order. Is mail order on a downward trend? I confess I have to give a reluctant "Yes." I cannot prove it, for our own dollar volume of mail-order sales is considerably above what it was in 1950, but costs are skyrocketing, and to continue to grow in this area seems to be fighting the law of diminishing returns. This simply means that we are encountering more and more sales resistance, and to overcome it costs so much more money that it is impossible to make a profit.

Mail-Order Switch

The reason for the decline in mail order is simple; it is modern mass distribution applied to our industry. It is and is going to become increasingly more convenient for our customers to pick up their plant material from the nearest garden center

than it will be to leaf through a catalog, select what they want without seeing it, fill out an order blank, add it up correctly, figure out the correct state sales tax, address an envelope, put a stamp on it and take it to the post office—and then receive shipment whenever the mail-order firm happens to get around to it, instead of at the time when it is most convenient to the customer to plant. It is going to be easier to buy cash and carry than mail order, just as it is easier for most of you to drive not more than two or three miles to buy a new pair of shoes than it is to sit down and order it from Sears-Roebuck.

In one way mail-order decline is much more serious than it seems.



Sidney B. Hutton, Jr.

Perhaps those who operate cash-and-carry garden centers should rejoice, for on the surface it would appear that more business is becoming available. However, because the mail-order area can advertise nursery plant material economically nationally, it has become important to other segments of the industry; for this has been the means whereby an immense amount of publicity relating to ornamental plants and their uses, and most particularly to new varieties and kinds of plant material, has created greater markets for other segments of the industry, particularly cash and carry.

The impact of advertising in newspapers and magazines by various mail-order firms has been important. In fact, the garden magazines themselves are quite dependent on mail

order for their existence, and if they disappear, one of our finest sources of nursery public relations will be lost.

Potential Stimulus Decline

Perhaps even more important have been the millions and millions of catalogs, folders and pieces of mail of all kinds that have been sent into American homes and whetted people's appetites for beautification of their homes. The mail-order nurseryman has never picked up all the stimulus for gardening and new plants that he has created; part of the demand he has created has been filled by the landscape nursery and the cash-and-carry garden center.

When and if the mail-order nurseryman disappears, he is going to be so badly missed that we as an industry need to devise some means of either keeping him going or continuing the immense advertising job he has been doing for all of us.

One way in which this national advertising deficiency can be picked up is by the wholesale grower-supplier. Because his distribution is often national, he can afford to advertise on a national basis. But so far there is little evidence that the wholesale grower-supplier is going to pick up the ball and carry it for the retailer. However, if he does, do not expect him to continue to supply you with plants at present prices. He is going to have to charge for this advertising, and from my knowledge of advertising and its costs it is going to mean a tremendous increase in his prices, 20 per cent at the minimum.

Another aspect of advertising that is going to make the independent cash-and-carry garden center operators a bit unhappy is that in the next 10 years—at least on a regional basis—as chain stores move into this field, they are going to begin to carry out large advertising programs. As they add nursery products to their existing stores, or as they develop into separate garden center operations, you will find that they will concentrate their coverage in a given area. As soon as a chain has five to seven garden centers strategically located throughout a metropolitan area, it can buy economically ample advertising coverage for the stores. And it can buy this in a quantity and quality that you as independent single-store operators cannot afford.

This is enough for the moment on advertising.

At the present time the number of minimum dues-paying members of the A. A. N. is 552. I predict that in

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Address delivered by Sidney B. Hutton, Jr., Conard-Pyle Co., West Grove, Pa., at the annual meeting of the Maryland Nurserymen's Association held at Baltimore, Md., January 11 and 12.

Varied Talks Presented at Midwest Tree Conference

By Noel B. Wysong

The 16th annual meeting of the Midwestern chapter of the National Shade Tree Conference was held February 15 to 17 in the Hotel La Salle, Chicago, Ill. The convention was attended by 414 registered members and guests from 14 states, representing tree service companies, landscape organizations, nurseries, municipal forestry and park departments, plant research agencies, colleges and universities.

The informative and interesting educational sessions were well attended. The tools, supplies and equipment displayed by manufacturers and dealers attracted many visitors and contributed greatly to the general interest in the meeting. The educational exhibits, the plant identification contest, the annual banquet and entertainment and other features of the program were important factors in the success of the convention.

Election of Officers

At the business session held Thursday afternoon, those elected to serve the Midwestern chapter, N. S. T. C., for the coming year were the following: President, Harold S. McNabb, Jr., department of botany and plant pathology, Iowa State University,

Ames; vice-president, H. A. Morrison, Wilmette, Ill.; secretary-treasurer, Noel B. Wysong, River Forest, Ill.

Elected to the board of governors of both the Midwestern chapter and the National Shade Tree Conference for a 2-year term were Ralph G. Carmichael, Bettendorf, Ia.; Leonard Hammerstone, Crystal Lake, Ill.; George E. Hafstad, Middleton, Wis.; Orville P. Hatcher, Omaha, Neb.; Harold S. McNabb, Jr., and Harold L. Sellers, Ankeny, Ia.

Holdovers on the board of governors are J. C. Carter, Urbana, Ill.; H. A. Morrison, Wilmette, Ill.; Lawrence D. Torpy, Omaha, Neb.; John C. Van Camp, Rockford, Ill., and Charles W. Warren, Omaha.

Elected as alternates to the board of governors for a term of one year were Archibald Enoch Price, Glenview, Ill.; Eugene B. Himelick, Urbana, Ill.; Daniel J. Coman, Chicago; Dan Neely, Urbana; Miles Sharpless, La Grange, Ill.; A. E. Schneider, Wheaton, Ill.; Lester E. Fournier, St. Paul, Minn.; Hugh E. Thompson, Manhattan, Kan.; Fred E. Wagner, McPherson, Kan.; Gregory J. Lucking, Minneapolis, Minn., and Albert F. Thomason, Chicago.

After registration Wednesday

morning and the courtesy coffee hour with the exhibitors, President Roy Rasmussen, superintendent of grounds, Father Flanagan's Boys Town, Boys Town, Neb., called the meeting to order. In his address of welcome, President Rasmussen warned that arborists must have "the dignity and intelligence to overcome the misinformation that is spread by a few unscrupulous operators" and counseled patience and persistence in working toward the goal of making arboriculture a highly respected profession in the public mind.

The first formal paper on the educational program was presented by Fred E. Wagner, McPherson, Kan., on the topic "Cabling and Bracing of Shade Trees." The practice of supplying trees with supplemental support, he said, is justified when branches developing from V-shaped crotches are allowed to grow so large that removal of one of the branches will destroy the symmetry of the tree, when actual splits occur at branch crotches, when the tree is shallow rooted and likely to be uprooted by wind and in the treatment of trees in which cavities have developed.

In the purchase of trees for planting, Mr. Wagner advised selecting those that have a straight trunk and scaffold-type branches with no V-shaped crotches. As the trees grow, they should be observed; if weak crotches develop, the branch of lesser importance should be pruned out.

In the treatment of structurally weak, V-shaped branch crotches, he

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PORTLAND ROSE PLANTING WEEK

Three Portland area nurserymen took prominent part in the activities of "Rose Planting Week" at Portland, Ore., February 19 to 26. They were Henry Hausch, Roseway Nurseries, Beaverton; E. Mike Dering, Peterson & Dering, Scappoose, and Fred Edmunds, River Ranch Nursery, Sherwood. All activities of the week were participated in by the Royal Rosarians of Portland, of which Mr. Hausch is a member, and the Portland Rose Society, of which Mr. Edmunds is president. Roseway Nurseries and Peterson & Dering donated roses for the plantings.

The first event of the week took place at the home of Mayor and Mrs. Terry F. Schrunk of Portland, when a new rosebush was planted in their rose garden. At that time the mayor proclaimed the week as "Rose Planting Week" at Portland. The accompanying illustration shows Mayor Schrunk reading the proclamation, as Mrs. Schrunk looks on; at the far left is Henry Hausch; beside him is Cecil M. Brown, the prime minister of the Royal Rosarians, and at the far right is Fred Edmunds.

The following day the first eight bushes of 127 Peace roses were planted at the Portland Memorial Coliseum as a memorial to war dead. The East Side Commercial Club and officials of the Memorial Coliseum also took part in the ceremonies.

February 22, a new rosebush was added to the gardens of the Portland Information Center. February 24, the Queen of Rosaria made a planting in the rose garden of the Lincoln high school. The following day a planting was made at a new home in one of Portland's newest suburban areas. The final planting was made February 26, at the Portland Shrine hospital, starting a new rose garden there. Each June, hereafter, a



prince and princess chosen from among the crippled children of the hospital will honor the rose in the rose garden of the hospital during "Rose Festival Week." Newspapers gave considerable publicity to the plantings.

Landscaping, Topic at Ohio School

By Marie Brandstaetter

Approximately 175 local members and nurserymen from Ohio, Pennsylvania and Michigan attended the 27th annual nurserymen's school, held February 22 at Hellriegel's Inn, Painesville, O. An especially interesting program, coupled with favorable weather conditions, was responsible for a record attendance at the event, sponsored by the Lake County Nurserymen's Association in co-operation with the Lake county agricultural extension service.

The program for the day started at 9 o'clock with the showing of the film "Basic Technique for Home Landscaping." Ted Gilson, Painesville, vice-president of the Lake County Nurserymen's Association, who presided over the first half of the program, then introduced Charles Kohankie, landscape contractor and nurseryman, Painesville, who acted as moderator of a panel discussion, "Trends in Landscaping."

Notes Tendency To Overplant

Henry Pree, landscape architect, Cleveland, author of a garden column for the Cleveland Press and in charge of all landscaping and garden design at the Cleveland flower show, spoke mainly of residential plantings. The average young landscape architect is perhaps prone to overplant; that is to crowd too much material into the space available in order to achieve immediate effects, Mr. Pree noted.

Plants for shade, broad-leaved evergreens and rhododendrons are in great demand, and more of the wind-tolerant plants are needed. The nurseryman can help by providing more of these materials, which would find a ready market.

Park and city planting was discussed by George E. Creed, division of design and construction, department of public property, city of Cleveland.

Insofar as any trends in planting are concerned, Mr. Creed feels that cost of maintenance plays a vital role, not only in planting plans for public works but also in private landscaping. This is a continuation of a trend that started shortly after World War II. Greater simplicity in planting represents savings in maintenance.

Today, new massive shrub plantings are rarely seen in public parks because they are too expensive to maintain. A few shrubs are used

to adorn public buildings or other structures, but few new planting plans include the quantities used formerly.

Small flowering trees such as crab apples, cherries and hawthorns, in recent years, have become popular replacements for shrubs, and this trend toward the use of flowering trees should continue to gather momentum for many years.

Selectivity Needed

However, nurserymen should be selective in the types of small trees they grow. Some of the older stand-

bys are meritorious and should be propagated; crab apples such as sargentii, arnoldiana, Hopa, hupehensis and floribunda, for instance. However, there are many fine crab apples not commonly grown, and among these are Dorothea, Almey, Katherine, Red Jade, purpurea aldenhamensis, zumi calocarpa, robusta erecta, micromalus and baccata columnaris.

It behooves the nurseryman to propagate more of the finer varieties of small flowering trees which the landscape architect would like to

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Michigan Landscape Groups Gather for Joint Conference

Lawn problems and difficulties facing the landscape architect today were among the featured topics at the joint midwinter conference of the Kalamazoo Valley Landscape and Nursery Association and the Grand Rapids Nursery Association held February 7 at the Hotel Harris, Kalamazoo, Mich. John Klooster, Klooster Landscape Service, Richland, Mich., president of the Kalamazoo Valley group, presided.

Dr. Klomparsen, of the Upjohn

Co., Kalamazoo, presented a slide-illustrated talk on "Lawn Diseases and Research." The most important factor in having a healthy lawn, the speaker declared, is giving it protection, because most of the diseases are difficult to control once they become established. Dr. Klomparsen's slides illustrated many of the troublesome fungus diseases that attack lawn grasses. Included were fairy ring, rust, damping-off, melting out,

[Concluded on page 60]



Participants in recent Kalamazoo landscape conference: Top row, Ed Scanlon, John Zelenka and Robert Tuinstra, Fruit Basket Gardens, Grand Rapids, president, Grand Rapids Nursery and Landscape Association; seated, Mr. Scanlon's secretary, John Klooster, and Mrs. Klooster.



PERMANENT PROFIT RESTS WITH SATISFIED CUSTOMERS

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Satisfaction Like Armstrong
Rose Quality.**

Dear Mr. Dealer:

To those of us at Armstrong Nurseries, "quality" means the every day scientific, mechanical and intricate manual operations we go through in the fumigation of soil, spraying of crops, digging, handling, packaging and shipping in order to make sure that Armstrong sends out **ONLY** the very best bare root roses.

To your customers, however, "quality" has a much simpler meaning; if a rose grows and thrives colorfully, it has quality. If it dies or gives a disappointing performance, it hasn't quality.

Since you are the person who sold this rose to the customer, it is **YOU** from whom the customer is either going to continue to buy -- if he gets quality -- or shop elsewhere -- if he doesn't.

The "permanent" profit will always be in bare root roses you can sell with complete confidence; that can be grown with complete satisfaction. Why take chances? You can always rely on **ARMSTRONG** bare root quality!

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Eugene K. Corey
Wholesale Sales Manager

Quality

Each bare root plant is budded on famed Dr. Huey rootstock, the one root system which gives top performance regardless of where it's planted. 71 years of Armstrong know-how goes into the rigid control and production standards of each bare root rose which is grown two full years.

Service

Armstrong bare root roses arrive in peak condition, by prepaid freight, at a cold storage plant in your area, *prelabeled for immediate use*. Armstrong bare root roses in the attractive "GARDEN MAGIC" package are shipped freight prepaid, to your door, ready for **SAME-DAY SELLING**.

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Armstrong offers a solid "one-two" promotional combination of *national advertising* and *national variety publicity* **ALL YEAR AROUND**. Yes, every day of the week, in newspapers, magazines and on radio and television, Armstrong rose varieties are making **NEWS**. Full color post cards, color prints, newspaper mats and other sales aids are available to all dealers.

Armstrong
NURSERIES
Ontario, California

OBITUARY

William Grac

William Grac, 53, owner of Green Acre Nurseries, Inc., Levittown, N. Y., died at his home February 21. Beginning in the nursery business in the late 1930's, he established a small roadside stand and sold trees and shrubs for landscaping purposes, later expanding his facilities with the building of a housing development for which he supplied materials and landscaping services. Mr. Grac also owned the Levittown Florist Shop. Survivors include his widow, Katherine; two daughters, and one granddaughter.

William F. Norton

William F. Norton, proprietor of Norton's Nurseries, Dansville, N. Y., died February 18 after a short illness. He was 68 years old. He had conducted the business started by his father and in recent years had been contract grower for several eastern nurseries. He is survived by one son and three sisters.

Margaret Dintelmann

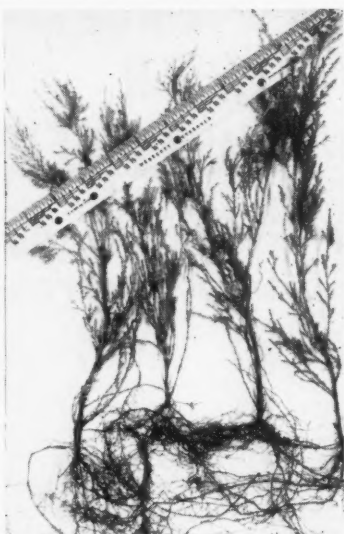
Margaret Dintelmann, a member of the Dintelmann nursery family, Belleville, Ill., died at the age of 87 after a long illness. The last surviving member of the Henry Dintelmann family, she is survived by three nephews, Henry G. Dintelmann, the present operator of the Dintelmann nursery; Irvin C., Dan Nies, and three nieces.

Edward O. Webb III

Edward O. Webb III, 51, W. B. Clarke & Co., San Jose, Calif., died at his home recently. Formerly associated with the photography supply industry, Mr. Webb had been business manager of W. B. Clarke & Co. since 1959, when the nursery was taken over by Walter Borchers. He is survived by his widow, Wilma; a daughter; one sister, and one brother.

Thomas Watts

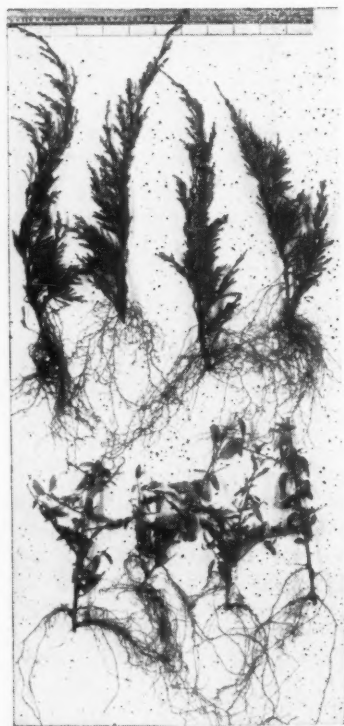
Thomas Watts, senior partner of Watts Nurseries, Fenwick, Ont., Canada, died at his home February 5. He was 81 years old. Mr. Watts emigrated to Canada in 1906 from Sutton, Surrey, England, and immediately associated himself in the nursery industry. He had been brought up in the business, both his father and grandfather having been nurserymen in England. Before establishing his own nursery, Mr.



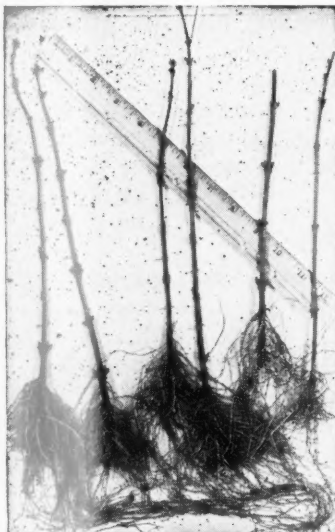
Burk Juniper



Blue Hetz Juniper



Andorra Juniper (top) Pyracantha lalandi and Kasan (bottom)



Forsythia Spring Glory, Lynwood Gold and Beatrix Farrand

	Each
Andorra Juniper, 6 to 8 ins.	\$0.05
Burk Juniper, 6 to 10 ins. ....	.12
Blue Hetz Juniper, 6 to 10 ins. ....	.05
Pfitzer Juniper, 6 to 10 ins. ....	.07
Pfitzer Juniper, 6 to 8 ins. bands ..	.16
Euonymus patens, small or medium-leaved, 8 to 10 ins. ....	.04

	Each
Forsythia Beatrix Farrand, 6 to 10 ins.	\$0.05
Forsythia Lynwood Gold, 6 to 10 ins. ....	.04
Forsythia Spring Glory, 6 to 10 ins. ....	.04
Euonymus coloratus, 6 to 10 ins. ....	.04
Pyracantha Kasan, 5 to 6 ins. ....	.05
Pyracantha lalandi, 5 to 6 ins. ....	.05

Less than 300, total order, 2c more per plant.

Less than 50 of any item, 4c more per plant.

Shipment now or book your order for spring.

See classified under lining-out stock for other items.

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ROSE SERVICE...REPEATED BY POPULAR DEMAND!**

OVERNIGHT DELIVERY

**of famous Oregon-grown
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Our airlift service, initiated two years ago to serve winter-damaged areas, proved to be so popular we are repeating it. *No need to get caught short with overnight delivery available.*

NO EXTRA COST ON ORDERS OF 250 OR MORE

All orders shipped same day as received. Orders for 250 or more shipped air freight prepaid to your nearest air terminal, charging you usual pool car rate of 5 cents per bush and we pay the balance. Orders of 110 to 250 shipped air freight prepaid, charging you 10 cents per bush. Orders for less than 110 shipped express collect.

Send check when ordering unless you already have established credit with Peterson & Dering.

To facilitate air shipment, roses will be trimmed to 6", 8" or 10". Please specify preference.

For delivery tomorrow . . . phone or wire your order today!

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1. Every bush is labeled—No variety mix-ups.
2. Every bush is top-tied—Easier to handle.
3. Every bush is trimmed to your specifications—Saves on freight, storage space and time.
4. Pliable fibrous roots and short shanks—Easier to pot and faster growing.
5. Free Ad Mats and Merchandising Aids—help you sell.
6. Color Folders and Banners—available at cost.
7. Free Color Pictures—for each variety ordered.

GOOD SELECTIONS STILL AVAILABLE

Most patent and non-patented varieties available in grades #1 and #1½. Choose from our latest listing. Minimum order, 110 roses. Please specify if substitute variety or grade may be shipped if desired grade or variety is out of supply.

EVERGREEN SEEDLINGS SPRING, 1961, WHOLESALE PRICE LIST

Scotch Pine	Per 100	Per 1000
2-yr., 2 to 4 ins.	\$ 1.50	\$ 7.50
4 to 8 ins.	4.00	20.00
3-yr., 6 to 12 ins.	4.00	20.00
8 to 14 ins.	4.00	20.00
10 to 18 ins.	5.00	25.00
4-yr., 12 to 22 ins.	7.00	35.00

Special low prices on complete beds of 3 and 4-yr. Scotch Pine. Inquire for details.

French Scotch Pine	Per 100	Per 1000
2-yr., 1 to 3 ins.	1.50	7.50
3 to 6 ins.	4.00	20.00
3-yr., 6 to 13 ins.	5.00	25.00
4-yr., 13 to 20 ins.	8.00	40.00
(2-3), 6 to 10 ins.	10.00	50.00
10 to 15 ins.	16.00	75.00
15 to 18 ins.	25.00	...

Spanish Scotch Pine	Per 100	Per 1000
2-yr., 1 to 3 ins.	1.50	7.50
3 to 6 ins.	4.00	20.00
4 to 8 ins.	5.00	25.00
3-yr., 6 to 12 ins.	5.00	25.00
4-yr., 8 to 15 ins.	8.00	40.00

Ponderosa Pine	Per 100	Per 1000
2-yr., 3 to 6 ins.	3.00	15.00
2-yr., 6 to 14 ins.	5.00	25.00
4-yr., 12 to 18 ins.	10.00	...

White Pine	Per 100	Per 1000
2-yr., 1 to 2 ins.	2.00	10.00
2 to 5 ins.	3.00	15.00
3-yr., 4 to 8 ins.	7.00	...

Red Pine	Per 100	Per 1000
2-yr., 2 to 4 ins.	3.00	15.00
3-yr., 5 to 10 ins.	5.00	25.00
4-yr., 10 to 17 ins.	10.00	...

Mugho Pine	Per 100	Per 1000
3-yr., 1 to 3 ins.	...	35.00
Height or spread
(2-3), 6 to 12 ins., 50c each
(2-4), 10 to 18 ins., \$1.00 each

Austrian Pine	Per 100	Per 1000
2-yr., 1 to 3 ins.	1.50	7.50
3 to 5 ins.	3.00	15.00
3-yr., 8 to 15 ins.	6.00	30.00
4-yr., 15 to 20 ins.	10.00	50.00

PLEASE NOTE
May we advise booking your order early—NOW—and avoid disappointment. Some items are in limited supply. May we therefore advise you to list secondary choices on late orders.

CANALE'S FOREST NURSERY

Phone: ELderton, FLeetwood 4-2461
Shelcta, Pa.

Watts was associated with the Brown Bros. Nurseries, Ridgeville, Man., and Messrs. Wellington and Davidson, of the Fonthill Nurseries, Fonthill, Ont.

His son, Richard, a former president of the Ontario Nurserymen's Association, will continue the business. Other survivors include his widow, Zilpha Kate Court; three daughters, and three sons.

ESTABLISH IOWA AWARD

The E. S. Haber scholarship, honoring Dr. E. S. Haber, head of the department of horticulture, Iowa State University, Ames, has been established by the Iowa Nurserymen's Association. Over a 6-year period, the sum of \$500 will be given annually to a selected student. A recipient in horticulture and landscape architecture will be named in alternate years.

OPENING of a garden center this spring has been announced by DeVita's Conservatories, Inc., Wakefield, Mass., a firm long active in the carnation-growing business.

Douglas Fir	Per 100	Per 1000
3-yr., 2 to 4 ins.	\$ 3.00	\$ 15.00
4 to 8 ins.	6.00	30.00
4-yr., 3 to 5 ins.	4.00	20.00
5 to 10 ins.	8.00	40.00
5-yr., 8 to 15 ins.	15.00	...
(2-2), 3 to 7 ins.	10.00	...
(2-3), 7 to 12 ins.	20.00	...

Concolor Fir	Per 100	Per 1000
3-yr., 2 to 4 ins.	3.00	15.00
4 to 8 ins.	8.00	40.00
4-yr., 7 to 12 ins.	12.00	...

Balsam Fir	Per 100	Per 1000
3-yr., 1 to 3 ins.	3.00	15.00
3 to 6 ins.	6.00	30.00
(2-2), 4 to 8 ins.	15.00	...

Fraser Fir	Per 100	Per 1000
2-yr., 1 to 2 ins.	4.00	...

We have had many requests in the past for small seedlings that a person may secure at a low price and then put them in transplant beds for a few years prior to field planting. For these people and for others who have the same idea, we are now listing this small size at a very low figure. We do not recommend these for direct field planting except in areas where they have proved themselves. The size of the following seedlings is 1 to 2 ins. No discount. Net price.

Scotch Pine, \$5.00 per 1000
Blue Spruce, \$8.00 per 1000

Colorado Blue Spruce	Per 100	Per 1000
3-yr., 2 to 4 ins.	2.00	12.50
4 to 8 ins.	5.00	25.00
4-yr., 6 to 10 ins.	8.00	40.00
10 to 16 ins.	13.00	65.00
(3-2), 3 to 6 ins.	10.00	50.00
6 to 12 ins.	20.00	90.00
12 to 15 ins.	50.00	...

White Spruce	Per 100	Per 1000
3-yr., 2 to 4 ins.	\$ 2.00	\$ 12.50
4 to 8 ins.	5.00	25.00
4-yr., 8 to 12 ins.	7.00	35.00
(2-4), 6 to 12 ins.	13.00	65.00
12 to 18 ins.	20.00	100.00
18 to 24 ins.	30.00	150.00

Black Spruce	Per 100	Per 1000
3-yr., 2 to 4 ins.	2.00	12.50
4 to 8 ins.	4.00	20.00

Black Hills White Spruce	Per 100	Per 1000
3 to 6 ins.	2.00	12.50
4-yr., 6 to 12 ins.	5.00	25.00
8 to 12 ins.	8.00	40.00

Engelmann Spruce	Per 100	Per 1000
3-yr., 1 to 3 ins.	2.00	12.50
3 to 6 ins.	4.00	20.00
6 to 10 ins.	7.00	35.00

Norway Spruce	Per 100	Per 1000
2-yr., 2 to 4 ins.	2.00	10.00
4 to 8 ins.	4.00	20.00
3-yr., 6 to 10 ins.	5.00	25.00
10 to 14 ins.	7.00	35.00
4-yr., 14 to 20 ins.	10.00	50.00
(2-2), 3 to 6 ins.	8.00	40.00
6 to 12 ins.	13.00	65.00
10 to 20 ins.	25.00	...

Arborvitae	Per 100	Per 1000
3-yr., 2 to 4 ins.	4.00	20.00
4 to 8 ins.	7.00	35.00
7 to 12 ins.	15.00	...

Canadian Hemlock	Per 100	Per 1000
2-yr., 1 to 3 ins.	5.00	...
(3-2), 4 to 8 ins.	15.00	75.00
8 to 12 ins.	25.00	125.00
10 to 14 ins.	35.00	...

Juniperus virginiana	Per 100	Per 1000
(2-3), 10 to 18 ins., 35c each
18 to 30 ins., 50c each

Juniperus communis depressa	Per 100	Per 1000
(2-3), 10 to 18 ins., 35c each

Taxus cuspidata capitata, upright pyramidal	Per 100	Per 1000
3-yr., 1 to 3 ins.	...	50.00
3 to 8 ins.	15.00	...

TERMS

Discount of 5% allowed on purchase of 5,000 of one kind and size. Write for our larger discounts on larger purchases and FREE 1961 Spring Wholesale Price List. All orders must be accompanied by a payment in full or a 25% down payment, balance C.O.D.

PACHYSANDRA TERMINALIS

	Per 100	Per 1000
1-yr., field-grown	\$ 5.00	\$ 45.00
Lots of 3000	...	42.50
2 1/4-in. pot-grown, 2 to 3 plants per pot	12.00	105.00

VINCA MINOR BOWLES VARIETY

2 1/4-in. pot-grown	16.50	150.00
Lots of 3000	...	145.00

Hedera helix, 2 1/4-in. pot-grown	12.50	115.00
Hedera helix baltica, 2 1/4-in. pot-grown	13.00	120.00
Hedera helix gracilis, 2 1/4-in. pot-grown	13.00	120.00
Euonymus fortunei radicans, 2-yr., field-grown	25.00	...

HANSEN BROS. NURSERIES, INC.

Phone: 215 MO 4-3923

Narberth, Pa.

JAPANESE RED BARBERRY

	Per 100	Per 1000	Per 5000
2-yr., S., 6 to 9 ins.	\$ 6.00	\$ 50.00	\$200.00
2-yr., S., 9 to 12 ins.	8.00	70.00	300.00
2-yr., S., 12 to 18 ins.	10.00	90.00	400.00
2-yr., S., 18 to 24 ins.	15.00	125.00	575.00
3-yr., T., lightweight, 18 to 24 ins.	27.50	240.00	...
4-yr., T., heavy, 12 to 15 ins.	25.00	225.00	...
4-yr., T., heavy, 15 to 18 ins.	30.00	275.00	...
4-yr., T., heavy, 18 to 24 ins.	35.00	325.00	...
4-yr., T., heavy, 2 to 2 1/2 ft.	37.50	350.00	...

FAIRVIEW EVERGREEN NURSERIES

Fairview, Erie Co., Pa.

Phone: GR 4-5712

MECHANIZE THE PROCESSING OF YOUR SOIL MIXES



with the new ROYER

PAUL BUNYAN

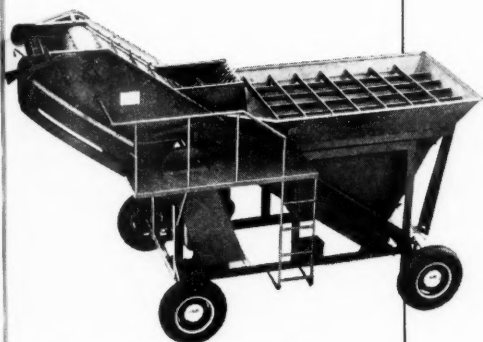
MODEL 360 SHREDDER

With the new Paul Bunyan, you can shred, blend, aerate and remove trash from your soil mixes—in one operation and in quantities up to 120 cu. yds. an hour. Capable of taking a charge of 2 cu. yds. from a bucket loader or drag line, the Paul Bunyan is a *complete processing plant*. It's been Royer-engineered, with the power, portability and capacity needed by today's large growers.

Ruggedly built, this machine features:

- a shredding capacity of up to 120 cu. yds. an hr., depending upon the materials used
- a 3 cu. yd., 9' wide loading hopper
- a discharge height that allows you to load directly into large trucks

Find out more about the Paul Bunyan Model 360 by contacting us now. We'll be pleased to send you complete information on specifications and prices.



The Paul Bunyan is a complete, compact soil processing plant with a shredding capacity of up to 120 cu. yds. an hour.



ROYER FOUNDRY & MACHINE CO.

182 PRINGLE STREET, KINGSTON, PENNSYLVANIA

"LEADERS IN THE SCIENCE OF SOIL CONDITIONING"

T. G. OWEN & SON, INC.

Columbus, Miss.

These prices are strictly based on wholesale quantities, 25 or more plants of a variety in one grade. If you order only 10 to 24 plants of a variety in one grade, add 10c per plant. If you order less than 10 plants of a variety in one grade, add 25c per plant. We extend to you a cordial invitation to visit our nursery.

	Each	25 or more
Biota aurea nana (Berckmans)		
12 to 15 ins., B&B	1.00	1.00
15 to 18 ins., B&B	1.00	1.00
18 to 24 ins., B&B	1.25	1.25
24 to 30 ins., B&B	1.50	1.50
30 to 36 ins., B&B	1.75	1.75

Biota aurea pyramidalis compacta	
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25

Biota bakeri

Biota excelsa

Biota sibyll

18 to 24 ins., B&B	.75
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25
3 to 4 ft., B&B	1.50
4 to 5 ft., B&B	2.00
5 to 6 ft., B&B	2.25

Biota Bonita

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
30 to 36 ins., B&B	1.75

Biota Bonita, upright

18 to 24 ins., B&B	.90
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.35

Biota Blue Cone

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	1.75

Biota excelsa compacta

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50

Biota fruitlandi

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75
3 to 4 ft., B&B	2.00

Cedrus deodara

18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75

Blue Lawson Cypress

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Juniper, Andorra

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.15
18 to 24 ins., B&B	1.40
24 to 30 ins., B&B	1.75

Juniper, Pfitzer

Juniper, Pfitzer compacta	
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50

Juniper, Pfitzer nana

12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.75
30 to 36 ins., B&B	2.50

Juniper, Pfitzer Blue (Hill's Strain)

10 to 12 ins., B&B	1.00
12 to 15 ins., B&B	1.25
15 to 18 ins., B&B	1.50
24 to 30 ins., B&B	2.25
30 to 36 ins., B&B	2.50

Juniper, Blue-Gray

Juniper, glauca hetzi	
12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.75
30 to 36 ins., B&B	2.25

Juniper, chinensis fortunei

15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	1.75

FINISHED STOCK

	Each	25 or more
Juniper, chinensis densa glauca		
15 to 18 ins., B&B	1.25	
2 to 3 ft., B&B	1.75	

Juniper, excelsa stricta	
12 to 15 ins., B&B	.85
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	2.25
3 to 4 ft., B&B	2.75

Juniper, hibernica fastigiata	
24 to 30 ins., B&B	.90
30 to 36 ins., B&B	1.00

Juniper, sabina tamariscifolia	
12 to 15 ins., B&B	1.25

Juniper, virginiana burki	
24 to 30 ins., B&B	1.75
30 to 36 ins., B&B	2.00

Juniper, virginiana burki compacta
(A counterpart of the well-known J. virginiana burki, except that this one is a beautiful spreading type, maintaining the well-known color of the upright form.)

12 to 15 ins., B&B	1.25
15 to 18 ins., B&B	1.50
18 to 24 ins., B&B	1.75
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50

Juniper, virginiana canari	
24 to 30 ins., B&B	2.25
30 to 36 ins., B&B	2.50

Juniper, virginiana Dundee	
30 to 36 ins., B&B	2.50
3 to 4 ft., B&B	3.50

Juniper, virginiana keteleeri

24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.25
5 to 6 ft., B&B	3.50

Thuja occidentalis Hetz Winter Green

Thuja occidentalis pyramidalis	
12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
2 to 3 ft., B&B	1.50

Berberis julianae

12 to 15 ins., B&B	1.00
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Berberis sargentiana

12 to 15 ins., B&B	.90
24 to 30 ins., B&B	1.50

Buxus sempervirens croni

10 to 12 ins., B&B	.90
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50

Camellia sasanqua, Maiden's Blush

18 to 24 ins., B&B	1.25
2 to 3 ft., B&B	1.50

Cleyera japonica (Ternstroemia)

12 to 15 ins., B&B	.85
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Elaeagnus fruitlandi

15 to 18 ins., B&B	.75
18 to 24 ins., B&B	.90
2 to 3 ft., B&B	1.00
4 to 5 ft., B&B	1.50

Euonymus japonicus aureo-variegatus

10 to 12 ins., B&B	.90
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Euonymus radicans erectus

12 to 15 ins., B&B	.60
15 to 18 ins., B&B	.75
18 to 24 ins., B&B	.90
(Deduct 50% if wanted B.R.)	

Gardenia radicans

12 to 15 ins., B&B	.70
15 to 18 ins., B&B	.80

Hex cornuta burfordi

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Hex cornuta, seedlings

15 to 18 ins., B&B	.90
18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	2.00
4 to 5 ft., B&B	2.50

Hex crenata convexa bullata

10 to 12 ins., B&B	.90
12 to 15 ins., B&B	1.00

Hex crenata hetzi

10 to 12 ins., B&B	.85
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25

Hex crenata rotundifolia	
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25

Hex glabra (Inkberry)

15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50

Hex opaca East Palatka

24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	2.00
4 to 5 ft., B&B	2.50

Hex opaca femina

3 to 4 ft., B&B	2.50
4 to 5 ft., B&B	2.75

Hex opaca Howard

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	2.00
4 to 5 ft., B&B	2.50

Hex opaca Howard, seedlings

3 to 4 ft., B&B	2.00
5 to 6 ft., B&B	2.25
6 to 8 ft., B&B	2.50

Hex vomitoria, dwarf

24 to 30 ins., B&B	2.50
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Jasminum floridum

18 to 24 ins., B&B	.75
2 to 3 ft., B&B	.90
(Deduct 50% if wanted B.R.)	

Laurel, Cherry

2 to 3 ft., B&B	1.25
3 to 4 ft., B&B	1.50

Ligustrum ionandrum

A government introduction. (Very small leaves, low growing and bushy. Forms a perfect specimen without shearing.)	
12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Ligustrum japonicum

3 to 4 ft., B&B	1.25
4 to 5 ft., B&B	1.50

Ligustrum lucidum compactum

Ligustrum texanum	
18 to 24 ins., B&B	.90
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25

Magnolia grandiflora

18 to 24 ins., B&B	1.00
2 to 3 ft., B&B	1.25
3 to 4 ft., B&B	1.75

Nandina domestica

12 to 15 ins., B&B	.60
15 to 18 ins., B&B	.75
18 to 24 ins., B&B	.90
24 to 30 ins., B&B	1.10

Osmanthus fortunei

12 to 15 ins., B&B	.75
15 to 18 ins., B&B	.90

Photinia serrulata

15 to 18 ins., B&B	.90
18 to 24 ins., B&B	1.00
2 to 3 ft., B&B	1.25

Viburnum tinus

30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	1.75

Acer palmatum atropurpureum,

seedlings (Japanese Red-Leaved Maple)	
12 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.50

Barberry, Red-Leaved

12 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Cornus florida

2 to 3 ft., B&B	1.00
3 to 4 ft., B&B	1.40

Cornus florida rubra

18 to 24 ins., B&B	1.25
3 to 4 ft., B&B	2.50

Crape Myrtle, Wm. Toovey

18 to 24 ins., B&B	.90
2 to 3 ft., B&B	1.00

Cydonia japonica

18 to 24 ins., B&B	.90
2 to 3 ft., B&B	1.00
(Deduct 50% if wanted B.R.)	

Lonicera, Flaming Beauty

12 to 18 ins., B&B	.85
18 to 24 ins., B&B	1.00

Spiraea reevesiana flore-pleno

3 to 4 ft., B&B	1.00
4 to 5 ft., B&B	1.25

T. G. OWEN & SON, INC.

Columbus, Miss.

LINING-OUT STOCK

Each 25 or more potted liners in this list will be shipped paper cups or pots without extra charge. Orders for 25 to 249 of a variety in one size take the 100 rate. Orders for 250 or more of a variety in one size take the 1000 rate.

	Each Per 100	Each Per 1000
<i>Biota aurea nana</i> (Berckmans)		
<i>Biota aurea pyramidalis compacta</i>		
<i>Biota bakeri</i>		
<i>Biota Blue Cone</i>		
<i>Biota Bonita</i>		
<i>Biota Bonita, upright</i>		
<i>Biota excelsa</i>		
<i>Biota fruitlandi</i>		
<i>Biota sibylli</i>		
2 1/2-in. pots	\$0.17	\$0.15
2 1/2-in. pots	.18	.16
Strong rooted cuttings	.10	.08
Varieties marked by (**) double asterisk		
are not available in rooted cuttings.		
<i>Cedrus deodara</i>		
2 1/2-in. pots	.18	.16
3 to 4 ins., seedlings	.10	.08
4 to 6 ins., seedlings	.12	.10
4 to 8 ins., seedlings	.14	.12
<i>Juniper, Andorra</i>		
<i>Juniper, Pfitzer</i>		
<i>Juniper, Pfitzer compacta</i>		
2 1/2-in. pots	.14	.12
2 1/2-in. pots	.16	.14
Strong rooted cuttings	.10	.08
<i>Juniper, Pfitzer Blue</i> (Hill's Strain)		
2 1/2-in. pots	.18	.16
Strong rooted cuttings	.12	.10
<i>Juniper, Pfitzer nana</i>		
2 1/2-in. pots	.20	.18
2 1/2-in. pots	.22	.20
<i>Juniper, Blue Vase</i>		
2 1/2-in. pots	.18	.16
2 1/2-in. pots	.20	.18
<i>Juniper, chinensis sargentii, blue</i>		
<i>Juniper, japonica procumbens</i>		
2 1/2-in. pots	.22	.20
2 1/2-in. pots	.24	.22
<i>Juniper, excelsa stricta</i>		
<i>Juniper, hibernica fastigiata</i>		
<i>Juniper, glauca hetzi</i>		
2 1/2-in. pots	.17	.15
2 1/2-in. pots	.18	.16
<i>Juniper, virginiana burki compacta</i>		
See description in B&B list		
2 1/2-in. pots	.20	.18
2 1/2-in. pots	.22	.20
<i>Juniper, occidentalis pyramidalis</i>		
2 1/2-in. pots	.18	.16
2 1/2-in. pots	.19	.17

We have these in surplus:

Note SPECIAL LOW PRICES!

SPECIAL NOTICE: Items marked by (**) asterisk will be available for delivery late spring of 1961. All items not so marked are ready for immediate or later shipment to suit customer's requirements.

CONTAINER-GROWN STOCK

	1-gal. Each 25	2-gal. Each 25
These prices are strictly based on wholesale quantities, 25 or more plants of a variety in one container size and one grade.		
If you order 10 to 24 plants of a variety in one container size and one grade, add 5c per plant.		
If you order less than 10 plants of a variety in one container size and one grade, add 10c per plant.		
	1-gal. Each 25	2-gal. Each 25
	or more	or more
<i>Curume and Hybrid Azaleas</i>		
<i>Hinodegiri, fiery-red</i>		
<i>Innocence, white</i>		
<i>Pink Banner, vivid carmine-pink</i>		
4 to 8 ins.	\$0.50	
8 to 10 ins.	.55	
10 to 12 ins.		
<i>Bella grandiflora</i> (Hinodegiri only)	.65	
12 to 15 ins.	.50	
15 to 18 ins.	.55	
<i>Cleyera japonica</i> (Ternstroemia)		
10 to 12 ins.	.55	
12 to 15 ins.	.60	
15 to 18 ins.	.70	
<i>Monaster parneyi</i>		
12 to 18 ins.	.55	
<i>Elaeagnus, dwarf</i>		
12 to 15 ins.	.70	
<i>Euonymus radicans erectus</i>		
12 to 15 ins.	.50	

	Each Per 100	Each Per 1000
**Taxus cuspidata		
Taxus intermedi		
Taxus andersoni		
Taxus media browni , rooted cuttings only		
**Taxus media hicksii		
Taxus media sieboldi (2 1/2 and 2 1/2-in. pots only)		
4 to 6 ins., rooted cuttings	\$0.08	\$0.06
2 1/2-in. pots	.12	.10
2 1/2-in. pots	.14	.12
(Varieties marked by (**) double asterisk, available in rooted cuttings and 2 1/2-in. pots.)		
<i>Abelia grandiflora</i>		
2 1/2-in. pots	.15	.14
2 1/2-in. pots	.16	.15
<i>Berberis julianae</i>		
2 1/2-in. pots	.17	.16
2 1/2-in. pots	.18	.17
<i>Buxus japonica</i>		
2 1/2-in. pots, heavy	.11	.10
2 1/2-in. pots, heavy	.12	.11
<i>Cleyera japonica</i> (Ternstroemia)		
2 1/2-in. pots	.18	.17
<i>Cleyera ochracea</i>		
2 1/2-in. pots	.17	.16
2 1/2-in. pots	.19	.18
3-in. pots	.21	.20
<i>Elaeagnus fruitlandi</i>		
2 1/2-in. pots	.13	.12
2 1/2-in. pots	.15	.14
<i>Elaeagnus pungens, dwarf</i>		
2 1/2-in. pots	.19	.18
2 1/2-in. pots	.21	.20
<i>Euonymus japonicus aureo-variegatus</i>		
2 1/2-in. pots	.17	.16
<i>Euonymus radicans erectus</i>		
2 1/2-in. pots	.10	.09
<i>Hedera helix</i> (English Ivy)		
2 1/2-in. pots	.11	.10
2 1/2-in. pots	.13	.12
<i>Gardenia fortunei</i>		
2 1/2-in. pots	.16	.15
<i>Ilex cornuta femina</i>		
2 1/2-in. pots	.13	.12
2 1/2-in. pots	.15	.14
<i>Ilex crenata buxifolia</i>		
<i>Ilex crenata repandens</i>		
2 1/2-in. pots	.13	.12
2 1/2-in. pots	.15	.14
<i>Ilex crenata convexa bullata</i>		
<i>Ilex crenata hetzi</i>		
2 1/2-in. pots	.14	.13
2 1/2-in. pots	.15	.14
4x 6 ins., beds, well-br.	.14	.13
6x 8 ins., beds, well-br.	.15	.14
8x12 ins., beds, well-br.	.17	.16
<i>Ilex crenata rotundifolia</i>		
2 1/2-in. pots	.15	.14
6x 8 ins., bed-grown, well-br.	.12	.11
6x 8 ins., field-grown	.16	.15
8x12 ins., field-grown	.18	.17

	Each Per 100	Each Per 1000
Ilex crenata fosteri No. 1		
A new, very low growing, very compact spreader. Its small serrated leaves are not convex and are more pointed than those of convexa.		
2 1/2-in. pots	\$0.18	\$0.16
Ilex crenata, seedlings		
2-in. pots	.09	.08
2 1/2-in. pots	.11	.10
3x4 ins., bed-grown	.06	.04
Ilex opaca East Palatka		
2 1/2-in. pots	.13	.12
2 1/2-in. pots	.14	.13
Ilex opaca femina		
2 1/2-in. pots	.18	.17
Ilex opaca Howard		
2 1/2-in. pots	.14	.13
Jasminum floridum		
2 1/2-in. pots	.10	.09
Laurel, Cherry		
2 1/2-in. pots	.14	.13
2 1/2-in. pots	.15	.14
Ligustrum japonicum		
2 1/2-in. pots	.11	.10
Ligustrum texanum		
2 1/2-in. pots	.16	.15
Magnolia grandiflora		
2 1/2-in. pots	.14	.13
2 1/2-in. pots	.15	.14
3x4 ins., bed-grown seedlings	.06	.05
Nandina domestica		
2 1/2-in. pots	.11	.10
2 1/2-in. pots	.13	.12
Osmanthus fortunei		
2 1/2-in. pots	.18	.17
Photinia glabra		
*2 1/2-in. pots	.17	.16
Photinia serrulata		
2 1/2-in. pots	.16	.15
4x6 ins., seedlings	.04	.03
Pittosporum tobira		
2 1/2-in. pots	.11	.10
Pyracantha bellii		
2 1/2-in. pots	.19	.17
2 1/2-in. pots	.20	.18
Pyracantha lalandi		
2 1/2-in. pots	.12	.10
2 1/2-in. pots	.15	.14
Strong rooted cuttings	.07	.06
Pyracantha yunnanensis		
2 1/2-in. pots	.16	.15
Viburnum tinus		
2 1/2-in. pots	.10	.09
Acer palmatum atropurpureum, seedlings		
2 1/2-in. pots	.21	.20
*2 1/2-in. pots	.26	.25
Barberry, Red-leaved		
2 1/2-in. pots	.11	.10
2 1/2-in. pots	.13	.12
Cornus florida		
2 1/2-in. pots	.09	.08
4x6 ins., bed-grown seedlings	.03	.02 1/2

QUALITY LINING-OUT STOCK

We list below the items of lining-out stock that we have available for the 1961 season. We think that we have very fine liners and will submit samples on request. No orders for less than 50 plants of a kind, please. 50 to 250 plants at the 100 rate, 250 and up at the 1000 rate.

LATH HOUSE GROWN POTTED LINERS

Grown outside in lath houses one or more seasons.

	Each Per 100	Each Per 1000
Barberry, julianae, 2 1/2-in. pot, 6 to 8 ins.	\$.16	\$.15
Elaeagnus simoni, 2 1/2-in. pot, 8 to 10 ins.	.15	.12 1/2
Ilex aquifolium, seedlings, 2 1/2-in. pot, 8 to 10 ins.	.15	.12 1/2
Ilex crenata convexa, 2 1/2-in. pot, 4 to 6 ins.	.15	.12 1/2
Ilex glabra, 2 1/4-in. pot, 6 to 8 ins.	.15	.12 1/2
Ilex crenata Green Thumb, 2 1/2-in. pot, 4 to 6 ins.	.15	.12 1/2
Ilex crenata helleri, 2 1/2-in. pot, 2-yr., 4 to 6 ins.	.15	.12 1/2
Ilex crenata helleri, 4-in. pot, 3-yr., 6 to 8 ins.	.35	.30
Ilex crenata hetzi, 2 1/2-in. pot, 6 ins.	.15	.12 1/2
Ilex opaca East Palatka, 3-in. pot, peat, heavy, 10 to 12 ins.	.15	.12 1/2
Nandina domestica, 2-in. rose pot, 8 to 10 ins.	.12 1/2	.10
Osmanthus fortunei, 2 1/2-in. rose pot, 4 to 6 ins.	.17 1/2	.15
Viburnum burkwoodi, 2 1/2-in. rose pot, 8 to 10 ins.	.12 1/2	.10
Viburnum chenaulti, 2 1/2-in. rose pot, 8 to 10 ins.	.12 1/2	.10
Thuja occidentalis compacta erecta, 2 1/2-in. rose pot, heavy, 6 to 8 ins.	.16	.14
Thuja occidentalis, Dark Green, 2 1/2-in. rose pot, heavy, 6 to 8 ins.	.16	.14
Thuja occidentalis globosa, 2 1/2-in. rose pot, heavy, 6 to 8 ins.	.16	.14
Thuja orientalis Baker's, 2 1/2-in. rose pot, 8 to 10 ins.	.17 1/2	.15
Thuja orientalis, Blue Cone, 2 1/2-in. rose pot, 8 to 10 ins.	.17 1/2	.15
Thuja orientalis, Mayhews, 2 1/2-in. rose pot, 6 to 8 ins.	.17 1/2	.15
Thuja orientalis newarkii, 2 1/2-in. rose pot, 8 to 10 ins.	.18	.16
Chamaecyparis plumosa, Green, 2 1/2-in. pot, 6 to 8 ins.	.15	.12 1/2
Chamaecyparis plumosa, Golden, 2 1/2-in. pot, 6 to 8 ins.	.15	.12 1/2
Juniper, chinensis hetzi, 2 1/2-in. pot, 8 to 10 ins.	.17 1/2	.15
Juniper, chinensis hetzi, beer cans, 12 to 15 ins.	.22 1/2	.20

BED-GROWN LINERS FROM LATH HOUSE

Boxwood, harlandi, beds, heavy, 8 to 10 ins.	.20	.17 1/2
Euonymus alatus compactus, beds, 4 to 6 ins.	.16	.15
Euonymus fortunei argenteo-variegatus, beds, 4 to 6 ins.	.15	.12 1/2
Euonymus fortunei compactus, beds, 8 to 12 ins.	.12 1/2	.10
Euonymus microphyllus, beds, heavy, 4 to 6 ins.	.15	.12 1/2
Euonymus radicans, beds, 10 ins.	.15	.12 1/2
Euonymus radicans, upright, beds, 8 to 12 ins.	.15	.12 1/2
Ilex crenata convexa, seedlings, 2-yr., beds, 10 to 12 ins.	.15	.12 1/2
Ilex crenata rotundifolia, beds, light, 6 to 8 ins.	.12 1/2	.10
Ligustrum lucidum Suwannee River, beds, 6 to 8 ins.	.35	.30

HEAVY FIELD-GROWN LINERS

All two-year, field-grown liners have been root-pruned and trimmed several times.

	Each Per 100	Each Per 1000		Each Per 100	Each Per 1000
Juniper, Andorra	\$.12 1/2	\$.10	Juniper, Pfitzer compacta Nicks	\$.17 1/2	\$.15
1-yr., 6 to 8 ins.	.12 1/2	.10	1-yr., 6 to 8 ins.	.17 1/2	.15
2-yr., 8 to 12 ins.	.15	.12 1/2	2-yr., 8 to 12 ins.	.22 1/2	.20
Juniper, chinensis			Juniper, Pfitzer		
albo-variegata			compacta Kallay		
2-yr., 8 to 12 ins.	.25	.20	1-yr., 6 to 8 ins.	.17 1/2	.15
Juniper, chinensis hetzi glauca			2-yr., 8 to 12 ins.	.22 1/2	.20
1-yr., 6 to 8 ins.	.12 1/2	.10	Juniper, Pfitzer Blue (Mayhews)		
1-yr., 8 to 12 ins.	.15	.12 1/2	2-yr., 10 to 12 ins.	.25	.22 1/2
2-yr., 8 to 12 ins.	.17 1/2	.15	Juniper, Pfitzer nana		
2-yr., 12 to 15 ins.	.20	.17 1/2	(Armstrong's)		
Juniper, chinensis maneyi			1-yr., 6 to 8 ins.	.17 1/2	.15
1-yr., 6 to 8 ins.	.25	.22 1/2	Juniper, sabina		
1-yr., 8 to 12 ins.	.27 1/2	.25	1-yr., 6 to 8 ins.	.12 1/2	.10
Juniper, excelsa stricta			2-yr., 10 to 12 ins.	.17 1/2	.15
1-yr., 6 to 10 ins.	.12 1/2	.10	Juniper, sabina Arcadia		
2-yr., 8 to 12 ins.	.17 1/2	.15	1-yr., 6 to 8 ins.	.25	.20
Juniper, fastigiata			Juniper, sabina horizontalis		
1-yr., 8 to 12 ins.	.12 1/2	.10	1-yr., 8 to 10 ins.	.25	.20
2-yr., 12 to 15 ins.	.15	.12 1/2	Juniper, sabina vancehron		
Juniper, communis depressa			1-yr., 6 to 8 ins.	.12 1/2	.10
aurea (Golden Canadian)			Juniper, virginiana repandens		
1-yr., 8 to 10 ins.	.17 1/2	.15	1-yr., 6 to 8 ins.	.15	.12 1/2
2-yr., 10 to 12 ins.	.22 1/2	.20	2-yr., 8 to 10 ins.	.17 1/2	.15
Juniper, chinensis pfitzeriana					
1-yr., 8 to 10 ins.	.17 1/2	.15			
2-yr., 10 to 12 ins.	.20	.17 1/2			

CARTWRIGHT NURSERIES

Collierville, Tenn.

Phone: UL 3-2352

COVER ILLUSTRATION

Rhododendron Dauricum

Found native in Korea, Manchuria and northern Japan, Rhododendron dauricum (Azalea dahurica) is similar to the native American R. nudiflorum (Massachusetts to North Carolina, west to Ohio) in that its flowers appear before the leaves. Under good conditions, this Asiatic species will mature at four to six feet, while the native, known as the pinkster flower, grows somewhat larger, reaching six to eight feet when fully developed.

In flowers there is considerable difference; those of R. dauricum appear as solitary, rosy-purple blooms, while the pink to pinkish-white flowers of R. nudiflorum are borne in clusters of from six to 10. The leaves of the Asiatic plant are smaller, being from one to two



Flowers of Rhododendron Dauricum

inches in length, and those of R. nudiflorum from one and one-half to three inches long. The leaves of R. dauricum are dark green above and a paler green beneath, slightly scaly on the upper side and densely scaly on the undersurface, broadly wedge-shaped or well rounded at the base, giving off a spicy fragrance when crushed. The leaves of the native species are nearly glabrous above and smooth beneath, except for the sometimes pubescent midrib.

Like the pinkster flower, R. dauricum thrives in rich, moist woodland, and this preference belies the old belief that azaleas require dry situa-



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Dow Soil Fumigants protect your nursery stock from nematodes

Don't risk quarantine or seizure of your nursery stock because of nematodes . . . your "invisible barrier" to profits.

Protection is sure and inexpensive when you control nematodes with Dow soil fumigants. You get more plants per acre, higher quality, better growth of lining-out stock. And you have more satisfied customers, because plants grow better when replanted out of fumigated soil.

These three Dow soil fumigants suit your nursery needs best:

TELONE® effectively controls nematodes with pre-plant applications. A "high-test" active fumigant, it won't clog spray nozzles—eliminating skips or misses in your acreage. Telone requires fewer gallons per acre, fewer refill trips. You cover more acreage in a day.

DOWFUME® MC-2 acts fast—within 24-48 hours—to protect seed beds from soil-borne pests, weeds, grasses,

insects, diseases. It halts nematodes, weed seeds, fungi . . . kills insects in all life stages. Easy to apply, it all but eliminates hand weeding.

FUMAZONE® 70E makes possible either pre-plant or emergency post-plant (or sidedress) fumigation of existing stands. Apply it by injection—add it to irrigation water—it brings effective control of root-knot, sting and meadow nematodes.

Get the complete facts on Telone, Dowfume MC-2 and Fumazone 70E today. See your Dow dealer. Or write: THE DOW CHEMICAL COMPANY, Agricultural Chemicals Sales Department, Abbott Road Building, Midland, Michigan.

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When used as directed on label and in accordance with good practices, they comply with the Food and Drug Law and other Federal Laws.

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KEN, RUSH THOSE ROSE POTS... MY ROSES ARRIVE SOON

TIME - TESTED

Cloverset POTS

WE SURE WILL, JIM
... WE APPRECIATE KNOWING THIS EARLY.
WE'LL GET 'EM TO YOU!

SMART NURSERYMEN DON'T TAKE CHANCES with any part of their operation. Since we operate a nursery, we understand the need for constant testing and improving, but we stick to **tried-and-true** methods, once they prove best... and **MOST ECONOMICAL!**

DON'T TRUST TO LUCK with untried pots... top nurserymen all over the country still prefer tried-and-true **TIME-TESTED Cloverset** pots. First in the field with the finest... Cloverset quality pots, since 1935... and most economical, too!

YOU MAKE MORE PROFIT WITH CLOVERSET POTS DESIGNED EXCLUSIVELY TO FIT NURSERY OPERATION.

Developed by nurserymen for nurserymen, to combat cut-rate competition, Cloverset pots are still the best means of offering a quality product. Only nurserymen have facilities for potting quality dormant stock and offering a genuine nursery-grown **growing** plant. Take advantage of your ability as nurserymen; use Cloverset pots to make more money selling to the quality-conscious market. You can be sure the pot will keep your plants in the top-quality condition you need for fast-moving cash-and-carry trade. Order yours today... or use the coupon for a sample.

ORDER YOUR Cloverset TIME-TESTED POTS TODAY!

FOR ROSES, PERENNIALS, SHRUBS AND YOUNG TREES

Size	Height	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT Per 1000	F.O.B. Kansas City		Cloverset Pot Prices
No. 0	5 1/2 ins.	5 ins.	6 ins.	200	210 lbs.	\$4.25	Per 1000	
No. 1	6 1/2 ins.	6 ins.	7 ins.	100	340 lbs.	5.25	50.00	
No. 2	9 1/2 ins.	7 ins.	8 ins.	100	535 lbs.	5.75	55.00	
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	6.25	60.00	
						25 pots, \$7.70; 50 pots, \$14.60; 75, \$21.75; 100, \$26.15; 1000, \$231.00.		F.O.B. Kansas City
No. 4	13 ins.	12 ins.	25	133 lbs.			

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☐ I enclose 50c; send sample set of Cloverset pots (limit, one set. Offer good in Continental U.S. and Canada only.)

☐ Send information **FREE** on how to use Cloverset pots for greater profits!

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CITYZONE.....STATE.....

tions; the name azalea is from the Greek word meaning dry and was probably based on this misconception.

While there are literally hundreds of rhododendrons to choose from, with species, hybrids or forms available to meet various needs in landscape and garden planning, this delicately flowered little shrub from the east lends much charm to wooded areas of park or estate that cannot be achieved with most of the heavier-foliaged, denser-branched plants in the genus.

J. G.

NEW INSPECTION RULES

Rules of inspection and issuance of a special inspection certificate for the shipment of Texas rosebushes have been established by Agriculture Commissioner John C. White following conferences with representatives of the east Texas rosebush industry.

The rules and the special certificate, which went into effect March 1, were set up by the commissioner under authority granted by the Texas legislature. Under the regulations, no lot of rosebushes may be shipped from any point within the state without previously having been inspected by the Texas department of agriculture, the certificate showing that the plants are free from injurious plant diseases or pests and are in good viable condition.

Requirements Listed

"Good viable condition" refers to the following requirements:

(1) The root system of rosebushes shall be sufficient to give normal growth when properly planted, showing no shriveling or blackening from drying, or other damage. (2) The plant canes shall be adequately matured, shall be clear of any shriveling, with a live, healthy condition indicated by the cambium layer. (3) In event of freeze damage, a rosebush shall be considered viable if, in the judgment of the inspector, 70 per cent of cambium eight inches above the bud union, and 100 per cent at the bud union remains in good growing condition. (4) When wrapped or packed for shipment, there shall be sufficient moisture content to maintain vigor while in storage or in normal period of transit.

Commissioner White pointed out that the crop of rosebushes in east Texas this year is higher in quality than at any previous season on record, and the new rules are aimed at enhancing the prestige of these plants in other states as well as in Texas.

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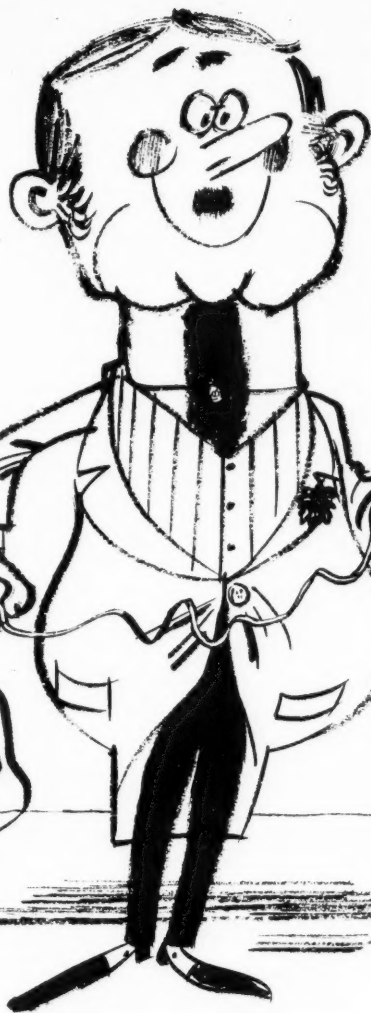
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The Stock's Going!
— By All Means . . .
BUY KLYN!!

The margin's right and dividends are terrific. While selections are still complete . . . reserve your favorites from Klyn's 140 varieties of the heartiest, healthiest, northern-grown 2-year roses, including almost 100 patent varieties. Complete selections of tea roses, floribundas, and climbers. All No. 1 and 1½, and generously graded.



New Spring Line!

Complete selection northern-grown wrapped shrubs . . . shade and fruit trees, vines, and hedging.

Priced to guarantee your profits!



Bare root or deluxe-wrapped for counter sales!



Color pictures and posters to help you sell!



Each bush individually tagged!



Also available potted to your specification!

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MENTOR, OHIO



Blackburn 5-3471

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TREES
A YEAR!**

***NOW OVER 35 MILLION!**

OUR TREMENDOUS

Quality trees pay you dividends. Musser trees with their strong, extensively branched, compact root system will grow and thrive where inferior stock may fail to survive.

Selected Seed from mature, hardy, disease-resistant parent trees provide good heredity and make healthy trees.

Scientific Methods of propagation, planting and spraying encourage rapid and healthy growth.

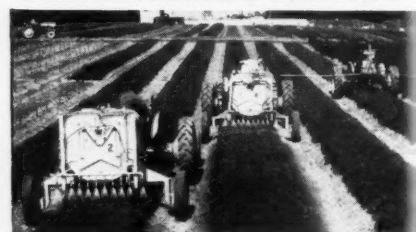
Modern Equipment provides greatest efficiency and economic production. Transplanting makes more roots. All 3-yr. and 4-yr. seedlings are root pruned before previous growing season to make a semi-transplant. All stock is carefully inspected before shipping.



COMPARE MUSSEY SEEDLINGS



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WE TRANSPLANT FOR STRONGER ROOTS

SEEDLINGS AND TRANSPLANTS at LOW, QUANTITY PRICES

50 at 100 rate; 500 at 1000 rate

Per 100 Per 1000

• SPECIAL STRAIN SCOTCH PINE

Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens. Also all other best strains Scotch Pine — French, Austrian Hill, German, Spanish strains available.

2-yr., S. (2-0), 2 to 4 ins.	\$ 3.00	\$ 15.00
2-yr., S. (2-0), 4 to 8 ins.	5.00	25.00
3-yr., S. (3-0), 8 to 16 ins.	8.00	40.00
4-yr., T. (2-2), 8 to 14 ins.	20.00	100.00

• WHITE PINE

One of the best timber species. Excellent windbreak and hedge. Very good ornamental and Christmas tree.

2-yr., S. (2-0), 3 to 6 ins.	4.00	20.00
3-yr., S. (3-0), 4 to 8 ins.	6.00	30.00
3-yr., S. (3-0), 5 to 10 ins.	8.00	40.00

• AUSTRIAN PINE

Good timber species. A beautiful, dark green, long-needle ornamental and Christmas tree, grown from selected seed from the Austrian Alpine region.

2-yr., S. (2-0), 3 to 6 ins.	4.00	20.00
3-yr., S. (3-0), 8 to 14 ins.	7.00	35.00

• MUGHO PINE—Pumilio Strain

Very best of true dwarf. Compact, low-growing ornamental pine.

2-yr., S. (2-0), 2 to 4 ins.	5.00	25.00
4-yr., S. (4-0), 4 to 8 ins.	10.00	50.00

• AMERICAN RED PINE

Excellent timber and Christmas tree.

2-yr., S. (2-0), 3 to 6 ins.	4.00	20.00
3-yr., S. (3-0), 8 to 14 ins.	8.00	40.00
4-yr., T. (3-1), 6 to 10 ins.	13.00	...

• MUSSEY EXCLUSIVE NORWAY SPRUCE

Exceptionally fast-growing, straight-stemmed stock especially desirable for Christmas trees, ornamentals and timber. Grown from seed, collected by our own men from selected trees.

2-yr., S. (2-0), 5 to 10 ins.	7.00	35.00
3-yr., S. (3-0), 10 to 18 ins.	9.00	45.00
3-yr., T. (2-1), 5 to 10 ins.	15.00	75.00
4-yr., T. (3-1), 8 to 12 ins.	20.00	100.00

• NORWAY SPRUCE

2-yr., S. (2-0), 2 to 4 ins.	\$ 3.00
2-yr., S. (2-0), 3 to 6 ins.	5.00
3-yr., S. (3-0), 5 to 10 ins.	7.00

• SERBIAN SPRUCE (*Picea omorika*)

Unusually valuable ornamental. Symmetrical habit of growth, with narrow, drooping branch spread. New 1/2 to 3/4-in. long. Glossy green.

3-yr., S. (3-0), 3 to 6 ins.	8.00
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• COLORADO BLUE SPRUCE

Excellent stock—finest in the country. One of the finest for ornamental Christmas tree use. Sturdy and compact in form; straight stems. From blue-green to marvelous blue. Seed selected at very high cost from trees having only the best characteristics.

3-yr., S. (3-0), 3 to 6 ins.	5.00
3-yr., S. (3-0), 6 to 12 ins.	11.00
3-yr., S. (3-0), 8 to 14 ins.	13.00

Very superior stock.

4-yr., T. (3-1), 4 to 8 ins.	18.00
5-yr., T. (3-2), 8 to 14 ins.	35.00

Excellent heavy stems, lightly branched.

6-yr., TT., 10 to 12 ins.	\$1.25 each
7-yr., TT., 12 to 15 ins.	\$1.75 each

Sold in lots of 5 or more. Individually packed with ball of peat moss. Marked () may be mixed varieties.

• WHITE SPRUCE

Similar to Norway spruce except for lighter color and slower growth rate.

2-yr., S. (2-0), 3 to 6 ins.	3.00
3-yr., S. (3-0), 8 to 14 ins.	8.00
4-yr., T. (3-1), 6 to 12 ins.	15.00
5-yr., T. (3-2), 12 to 16 ins.	20.00
6-yr., T. (3-3), 12 to 18 ins.	30.00

• ALBERTA WHITE SPRUCE

4-yr., S. (4-0), 8 to 14 ins.	9.00
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• BLACK HILLS SPRUCE

Fine ornamental. Most compact of excellent Christmas trees.

2-yr., S. (2-0), 2 to 4 ins.	4.00
3-yr., S. (3-0), 5 to 10 ins.	7.00
4-yr., S. (4-0), 8 to 12 ins.	9.00
4-yr., T. (3-1), 4 to 8 ins.	15.00

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for faster growth and quicker profits

DOUBLE VOLUME ENABLES US TO SAVE YOU MONEY

	Per 100	Per 1000		Per 100	Per 1000
ADIAN HEMLOCK Graceful growing habit. Can be used to any size. Hedges, specimen trees. Full shade or full sunlight. T. S. (2-0), 3 to 6 ins. \$ 9.00 \$ 45.00 T. S. (3-0), 8 to 12 ins. 16.00 80.00 T. T. (2-1), 6 to 10 ins. 20.00 100.00			• JAPANESE YEW (Continued) Taxus browni—Upright 1-yr. T. 4 to 6 ins. \$25.00 \$175.00 2-yr. T. 6 to 8 ins. 35.00 250.00 Taxus intermedia—Spreading 1-yr. T. 4 to 6 ins. 25.00 175.00 2-yr. T. 6 to 8 ins. 35.00 250.00		
ASIAN FIR For Christmas trees and ornaments. T. S. (2-0), 2 to 4 ins. 5.00 25.00 T. S. (3-0), 4 to 7 ins. 8.00 40.00			• JAPANESE YEW—Grown from seed Taxus cuspidata capitata—Upright, pyramidal. 4-yr. T. (2-2), 6 to 12 ins. 30.00 200.00 5-yr. T. (3-2), 12 to 18 ins. 50.00 300.00		
GLAS FIR Bluish. Rocky Mountain type. Superior ornamental and Christmas tree. T. S. (2-0), 4 to 8 ins. 6.00 30.00 T. S. (3-0), 8 to 12 ins. 11.00 55.00 T. T. (3-1), 8 to 12 ins. 20.00			• JAPANESE HOLLY Excellent evergreen shrub or hedge. Ilex convexa—trans. rooted cuttings. 1-yr. T. 4 to 6 ins. 20.00 175.00 Trans. liners, 6 to 10 ins. 35.00 300.00 Ilex crenata hetzi 1-yr. T. 4 to 6 ins. 20.00 175.00 Trans. liners, 6 to 10 ins. 35.00 300.00 Ilex rotundifolia 1-yr. T. 4 to 6 ins. 20.00 175.00		
NCOLOR FIR Excellent ornamental. Silver trunk and silver foliage. Fine for Christmas trees. Holds needles best of any short-needle tree. Needs good drainage. T. S. (2-0), 4 to 8 ins. 6.00 30.00 T. S. (3-0), 6 to 12 ins. 8.00 40.00			• AMERICAN HOLLY—grown from seed 1-yr. S. 2 to 4 ins. 12.00 60.00		
ANESSE LARCH T. S. (2-0), 10 to 16 ins. 5.00 25.00			• AMERICAN HOLLY—rooted cuttings We will sell at the ratio of 1 male to 9 female. Ilex opaca—tree-type holly 1-yr. T. 8 to 12 ins. 50.00 400.00 Della Bradley 1-yr. T. 8 to 12 ins. 50.00 400.00		
AMERICAN ARBORVITAE Regular for hedges and ornamentals. T. S. (3-0), 2 to 4 ins. 5.00 25.00 T. T. (3-1), 6 to 12 ins. 16.00 80.00			• BARBERRY—Red Unusually good red color. Excellent hedge plants. Red leaves in summer, red berries in fall-winter. 2-yr. S. 6 to 12 ins. 12.00 2-yr. S. 12 to 18 ins. 14.00		
ONE ARBORVITAE—Transplants Plants started from rooted cuttings as true strains. Edward—Dark Green T. T. 4 to 6 ins. 30.00 250.00 T. T. 5 to 7 ins. 40.00 Grey's Green T. T. 5 to 7 ins. 25.00 200.00 T. T. 6 to 8 ins. 40.00 300.00			• PIN OAK—Quercus palustris 8 to 12 ins. S. 11.00 55.00 18 to 24 ins. S. 15.00 75.00 3 to 4 ft. T. \$1.50 each		
RAMIDAL ARBORVITAE—Transplants Plants started from rooted cuttings as true strains. Compact—Green T. T. 5 to 7 ins. 35.00 300.00			• SUGAR MAPLE Hard Maple—fast-growing 6 to 12 ins. S. 10.00 50.00 12 to 18 ins. S. 16.00 80.00		
PIPER—Blue Pfeiffer—Chinensis Hetzi Improved Juniper with irregular spread-habit, fast growth, bluish color. Used extensively in landscape work. Excellent foundation plantings. T. T. 5 to 7 ins. 25.00 200.00 T. T. 5 to 12 ins. 65.00 T. T. spread 15 to 18 ins. \$2.50 each Semi-grown — ornamental size. Extra large. Sold in lots of 5 or more. Individually packed with ball of peat moss. Items marked with (*) may be mixed varieties.			• CHINESE CHESTNUT—Blight-resistant 18 to 24 ins. S. 10.00		
PIPER—Irish T. T. 4 to 6 ins. 30.00 250.00			• WHITE-FLOWERING DOGWOOD 12 to 18 ins. S. 8.00 40.00 18 to 24 ins. S. 12.00 60.00 24 to 30 ins. S. 16.00 80.00 32 to 48 ins. T. \$1.50 each		
PIPER—Andorra T. T. 4 to 6 ins. 30.00 250.00			• RHODODENDRON HYBRID—Cuttings, Grafts Our own hardy, Pennsylvania-grown plants. Red, pink, mauve and rose-lilac. 1-yr. T. C. 6 to 8 ins. 100.00 750.00 Will sell at ratio of 20 per cent red to other colors. *2-yr. red, 9 to 12 ins. \$3.00 each *2-yr. colors other than red, 9 to 12 ins. \$2.50 each *Sold in lots of 5 or more. Individually packed with ball of peat moss. Items marked with (*) may be mixed varieties.		
JAPANESE YEW—Trans. rooted cuttings Plants started from rooted cuttings. Taxus cuspidata—Spreading T. T. 5 to 6 ins. 25.00 175.00 T. T. 6 to 8 ins. 35.00 250.00 Trans. hicksi—Upright T. T. 5 to 6 ins. 25.00 175.00 T. T. 8 to 10 ins. 40.00 300.00			• AZALEA—Mollis, your choice of Orange (Babeuf), Red (Hugo Hardyzer). *3-yr. 8 to 10 ins. \$1.50 each *5-yr. 12 to 15 ins. \$3.50 each *Sold in lots of 5 or more. Individually packed with ball of peat moss. Items marked with (*) may be mixed varieties.		

Many other Evergreens, Hardwoods, Ornamentals,

Shade Trees and Shrubs

GROW BEST!

All stock is grown from
selected seed
and cuttings
CAREFULLY GRADED
AND PACKED

No charge for packing and boxing
Our cold storage permits
late shipments.

**SEND FOR COMPLETE
FREE CATALOG AND
WHOLESALE PLANTING
LIST... Also contains
Planting Guides and
our Famous Christmas
Tree Growers' Guide.**

"20 MILLION TREES a YEAR"
became a recognized
symbol of Musser Forests
years ago when that vol-
ume was reached—an-
nual production has since
reached more than
35 MILLION TREES
a year

ORDER NOW!

Write or Phone
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MUSSER FORESTS

BOX 16-C, INDIANA, PA.

Du Pont announces— 8 New Sales Winners



Du Pont ROSE FOOD

Special blend of organic and inorganic nutrients. All the food needed to grow lovely roses. Contains long-feeding Uramite®.



Du Pont TREE BANDER Insect Barrier

Handy aerosol forms sticky band on trees, shrubs and vines to keep crawling insects off flowers and leaves.



Du Pont SULFORON® Wettable Sulfur

Controls powdery mildew on roses and ornamentals, peach and apple scab, brown rot on stone fruits.



Du Pont 1% ROTENONE

Powerful—but safe—controls insects on a wide variety of vegetables and flowers.



Du Pont ROSE CANE SEALER

Protects pruning cuts on roses, small wounds on trees and shrubs. Handy dauber in the cap.



Du Pont DORMANT and SUMMER Spray

New—for use in growing season as well as in dormancy. Contains malathion. Even controls scale insects.



Du Pont AZALEA and EVERGREEN FOOD

Complete formula for acid-loving plants. One application feeds for an entire season. Contains long-feeding Uramite® fertilizer compound.



Du Pont PROFESSIONAL SPRAYER

Hose sprayer with special nozzle that can spray upwards for underside of foliage. Easily converts to mist spraying.

+ 4 Big Traffic-Building Specials

New special combination deals sure to build traffic. Your customers get a break—you get extra profits!

+ Generous Co-op Ad Allowance

Every case you buy gets you a buck for your own advertising campaign. Free mats and scripts—just ask!

ADDED BONUS

Free
Garden
Guides



Bigger and better than ever! Now—14 full-color pages packed with vital and basic information on disease and insect control. Real traffic builders—because gardeners can get them only through Du Pont Dealers.



BETTER THINGS FOR BETTER LIVING
... THROUGH CHEMISTRY

GARDEN CHEMICALS

(See page 149 for more exciting Du Pont news)

COMING EVENTS

MEETING CALENDAR

March 17—Short course for Iowa garden center operators, Iowa State University, Ames, Ia.

April 13 and 14 — Holly Society of America, 29th meeting, Battery Park hotel, Asheville, N. C.

May 18—Georgia nurserymen's field day, University of Georgia, Athens, Ga.

May 18 to 20—Florida Nurserymen and Growers Association, annual convention, Deauville hotel, Miami Beach, Fla.

May 21 to 23—Texas Association of Nurserymen, short course, Agricultural and Mechanical College of Texas, College Station, Tex.

May 28 to 30—Georgia State Nurserymen's Association annual convention, the Corsair, Jekyll island, Ga.

June 7 and 8—Refresher course for nurserymen, California Polytechnic Institute, San Luis Obispo, Calif.

June 11 to 13—Alabama Nurserymen's Association, annual convention, Albert Pick motel, Huntsville, Ala.

June 15 and 16—Florida Nurserymen and Grower's Association, short course, University of Florida, Gainesville.

June 19 to 24—Advanced management conference, Syracuse University's Minnowbrook conference center.

June 20 to 23—Western chapter, National Shade Tree Conference, University of British Columbia, Vancouver, Canada.

July 15 to 20—American Association of Nurserymen, annual convention, Statler Hilton hotel, Washington, D. C.

August 13 to 18—A. A. N. management conferences, Sagamore conference center of Syracuse University, near Raquette Lake, N. Y., and Lake Arrowhead conference center of the University of California, Lake Arrowhead, Calif.

ALABAMA DATES

June 11 to 13 are the dates set for the annual convention of the Alabama Nurserymen's Association, according to a recent announcement by Prof. Henry P. Orr, Alabama Polytechnic Institute, Auburn, secretary-treasurer of the association. The Albert Pick motel, Huntsville, Ala., will be headquarters for the sessions.

GEORGIA FIELD DAY

According to R. L. Livingston, department of horticulture, University of Georgia, Athens, Ga., May 18 is the date set for the Georgia nurserymen's field day. The program will be held on the university campus.

FLORIDA COURSE DATES

Dr. E. W. McElwee, department of ornamental horticulture, University of Florida, Gainesville, an-

Here's why you get Better Trees and Nursery Stock from COLE

FOR more than three quarters of a century Cole Nursery Company has concentrated its efforts on developing and producing only the better varieties and highest-quality trees, shrubs, evergreens, hedge plants, vines and ground covers. The extensive experience gained since 1881 is now applied at our 1200-acre properties at Painesville and Circleville, Ohio. These large-scale operations are among the most modern nurseries in the industry.

Ideal soil and climate conditions, careful preparation and proper irrigation contribute to the quality of Cole plants. Highly mechanized systems of planting, cultivating and root pruning produce strong, healthy plants, with more compact root systems, at lower cost. Mechanical digging methods and careful packing assure delivery of Cole nursery stock in good condition with uninjured roots.

Literally millions of trees and plants, in more than 360 varieties, give you a dependable source of material to meet your needs in large quantity and wide variety. Write for our new catalog.

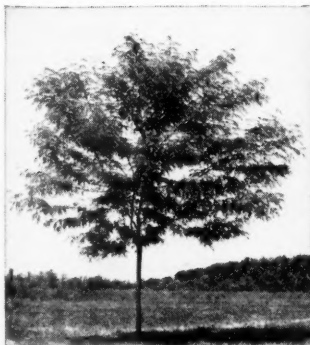


Spectacular SUNBURST

*(Plant Patent No. 1313)

The sensational, new two-color tree with brilliant yellow foliage on branch tips. It appears to burst with bloom all summer long.

Stock these patented New Cole Originals for sure profits



Cole's New IMPERIAL

(Plant Patent No. 1605)

The graceful, spreading, new Honeylocust that grows strong and straight *without staking*. A favorite of landscape men and tree experts.



Cole's new SKYLINE

(Plant Patent No. 1619)

Distinctive, stately variety with strong trunk and shapely crown. *Needs no staking*. Dark green foliage has heavy, leathery texture.



Cole's New MAJESTIC

(Plant Patent No. 1534)

A clean, graceful, symmetrically-branched tree. Produces a straight, sturdy trunk and compact crown *without staking or special trimming*.



Cole's New TALLHEDGE

(Plant Patent No. 1388)

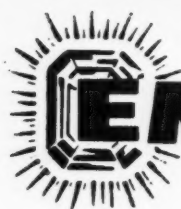
A thornless, glossy Columnar Buckthorn that grows to 12 feet. Ideal for tall, narrow, dense hedges or screens. Bears colorful berries.

**LARGE QUANTITIES
360 VARIETIES
WRITE FOR CATALOG**

THE COLE NURSERY CO.
PAINESVILLE, OHIO

**OHIO'S LARGEST
WHOLESALE NURSERY
ESTABLISHED 1881**

READY FOR IMMEDIATE DELIVERY!



HARDY - VERSATILE

EMERALD EUONYMUS SHRUBS

especially created

FOR HEDGING • FOUNDATION
OR ORNAMENTAL USE

Now! A new and exciting all-purpose Euonymus Shrub has been created through scientific hybridizing for the home gardener. These hardy, broad-leaved evergreen shrubs have been developed in four distinctly different types for formal and informal plantings.

EMERALD CHARM — a compact, bushy shrub with dark green leaves — grows in a natural upright form 4 to 5 ft. tall with 18-in. spread.

EMERALD LEADER — a decorative, bushy evergreen, beautifully clustered with orange berries to contrast with glossy green leaves. Grows 4 to 5 ft. tall with 2½-ft. spread.

EMERALD PRIDE — an excellent dwarf evergreen grows 4 ft. tall with 3½ ft. spread.

EMERALD CUSHION — very dwarf and dense; compact evergreen. Grows 15 to 18 ins. with 3-ft. spread.

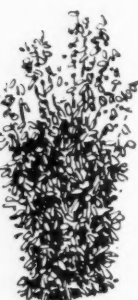
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OUR LICENSED GROWERS:

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EMERALD CHARM
Plant Patent 1079



EMERALD LEADER
Plant Patent 881



EMERALD PRIDE
Plant Patent 1073



EMERALD CUSHION
Plant Patent 1112

CORLISS BROS.

INCORPORATED

IPSWICH 2,
MASSACHUSETTS

nounces that June 15 and 16 have been set as the dates for the Florida Nurserymen and Growers Association short course, which the university will host at the Gainesville campus.

CALIFORNIA SHOW DATES

The California spring garden show will be held again this year at the Exposition Hall, Oakland, Calif. The dates are April 22 to 30. About eight acres, partly in the open and partly under cover, are devoted to this garden and home show, which draws homeowners and commercial nurserymen from a radius of about 50 miles.

TURF GRASS CONFERENCE

The Northern California Turf Grass Council will hold its annual conference March 29 and 30 on the campus of the University of California, Davis, according to a recent announcement by Sidney H. Bierly, secretary. The program, presented by members of the university faculty and other authorities, will feature two panel discussions, one on weed, insect and disease pests and the other on soil, fertilizers and fertilization.

Other topics to be covered in individual papers are turf grass varieties; athletic turf problems and solutions, and the proper mowing and control of weedy grasses. Guest speaker at the banquet scheduled for Wednesday evening, March 29, will be Leon V. Tichinin, farm adviser, Santa Clara county, one of the agricultural specialists who represented the United States at the American national exhibition at Moscow in 1959.

INTERNATIONAL CONGRESS

The 16th International Horticultural Congress, arranged for the time of the Belgian centenary celebrations of the first International Horticultural Congress, will take place August 31 to September 8, 1962, under the auspices of the International Society for Horticultural Science. The general secretariat is at 233 Coupure links, Ghent, Belgium.

HOWARD M. GAAR, Gaar Nurseries, Chesterfield, Ind., recently purchased 85 acres, which will be planted to nursery stock.

NURSERY premises of Joseph E. Sedlak, formerly located at Fayette City, Pa., were moved recently to 110 Trenk avenue, Belle Vernon, Pa.

WEST COAST ROSES

With a MIDWEST SHIPPING POINT

PATENTED HYBRID TEAS

Ardelle (Patented)
White, \$2.50
Bingo (Pl. Pat. 1392)
Red, \$2.50
Blanche Mallerin (Pl. Pat. 594)
White, \$2.00
Brocade (Pl. Pat. 1856)
New for 1961, blend, \$3.00
Burnaby (Pl. Pat. 1314)
Yellow, \$2.50
Chrysler Imperial (Pl. Pat. 1167)
Red, \$2.50
Confidence (Pl. Pat. 1192)
Blend, \$2.50
Dresden (Pl. Pat. 1857)
New for 1961, pink, \$3.50
Duet (Pl. Pat. 1903)
A. A. R. S., 1961, blend, \$3.50
Forty-Niner (Pl. Pat. 792)
Blend, \$2.50
Garden Party (Pl. Pat. 1814)
Cream, \$3.00
Golden Wings (Pl. Pat. 1419)
Yellow, \$2.50
Helen Traubel (Pl. Pat. 1028)
Blend, \$2.75
Konrad Adenauer (Pl. Pat. 1462)
Red, \$2.50
Kordes Perfecta (Pl. Pat. 1604)
Blend, \$3.50
Lady Elgin (Pl. Pat. 1469)
Yellow, \$2.50
La Jolla (Pl. Pat. 1103)
Blend, \$2.50
Las Vegas (Pl. Pat. 1486)
Blend, \$2.50
Lowell Thomas (Pl. Pat. 595)
Yellow, \$2.25
Midnight (Pl. Pat. 1542)
Red, \$2.75
Mirandy (Pl. Pat. 632)
Red, \$2.25
Mojave (Pl. Pat. 1176)
Blend, \$2.75
Nocturne (Pl. Pat. 713)
Red, \$2.25
Peace (Pl. Pat. 591)
Blend, \$2.50
Peaceful (Pl. Pat. 1599)
Blend, \$2.50
Pink Fragrance (Pl. Pat. 1493)
Pink, \$2.25
Pink Peace (Pl. Pat. 1759)
Pink, \$3.00
Fres. Eisenhower (Pl. Pat. 1217)
Red, \$2.25
Puregold (Pl. Pat. 1859)
New for 1961, yellow, \$3.00
Royal Velvet (Pl. Pat. 1911)
New for 1961, red, \$2.50
Summertime (Pl. Pat. 1541)
Yellow, \$2.50
Sunlight (Pl. Pat. 1576)
Yellow, \$2.50
Sutter's Gold (Pl. Pat. 885)
Blend, \$2.25
Tapestry (Pl. Pat. 1812)
New for 1961, blend, \$2.75
The Duke (Pl. Pat. 1522)
Red, \$2.50
Tiffany (Pl. Pat. 1304)
Blend, \$2.75
Torch Song (Pl. Pat. 1760)
Red, \$2.50
White Knight (Pl. Pat. 1359)
White, \$3.00
White Queen (Pl. Pat. 1762)
White, \$3.00
White Swan (Pl. Pat. 1115)
White, \$2.50

GRANDIFLORAS

Buccaneer (Pl. Pat. 1119)
Yellow, \$2.50
Carrousel (Pl. Pat. 1066)
Red, \$2.00
El Capitan (Pl. Pat. 1796)
Red, \$2.75
Golden Girl (Pl. Pat. 1912)
Yellow, \$3.00
June Bride (Pl. Pat. 1770)
White, \$2.50
Montezuma (Pl. Pat. 1383)
Red, \$2.75
Pink Parfait (Pl. Pat. 1904)
A. A. R. S., 1961, pink, \$3.50
Queen Elizabeth (Pl. Pat. 1259)
Pink, \$2.50
Starfire (Pl. Pat. 1742)
Red, \$3.00

FLORIBUNDAS

Baby Blaze (Pl. Pat. 1362)
Red, \$2.00
Fashion (Pl. Pat. 789)
Pink, \$2.00
Fire King (Pl. Pat. 1758)
Red, \$2.50
Fusilier (Pl. Pat. 1709)
Red, \$2.50
Gold Cup (Pl. Pat. 1683)
Yellow, \$2.00
Green Fire (Pl. Pat. 1776)
Yellow, \$2.25
Irene of Denmark (Pl. Pat. 889)
White, \$1.75
Ivory Fashion (Pl. Pat. 1688)
White, \$2.50
Lavender Girl (Pl. Pat. 1672)
Lavender, \$5.00
Little Darling (Pl. Pat. 1581)
Blend, \$2.25
Red Pinocchio (Pl. Pat. 812)
Red, \$1.75
Sarabande (Pl. Pat. 1761)
Red, \$2.50
Siren (Pl. Pat. 1197)
Red, \$1.75
Spartan (Pl. Pat. 1357)
Red, \$2.50
White Bouquet (Pl. Pat. 1415)
White, \$2.50
Yellow Pinocchio (Pl. Pat. 992)
Yellow, \$1.50

CLIMBERS

Blossomtime (Pl. Pat. 1240)
Pink, \$2.50
Cl. Crimson Glory (Pl. Pat. 736)
Red, \$2.75
Don Juan (Pl. Pat. 1864)
Red, \$3.00
Gladiator (Pl. Pat. 1524)
Red, \$2.75
Golden Showers (Pl. Pat. 1557)
Yellow, \$2.75
Morning Dawn (Pl. Pat. 1447)
Pink, \$2.50
Cl. Peace (Pl. Pat. 932)
Blend, \$2.50
Spectacular (Pl. Pat. 1416)
Red, \$2.50

NONPATENTED HYBRID TEAS

Red
Ami Quinard
Charlotte Armstrong
Christopher Stone
Crimson Glory
Etoile de Hollande
McGredy's Scarlet
Nigger Boy
Poinsettia
Red Radiance
Pink
Editor McFarland
Pink Radiance
The Doctor
Yellow
Eclipse
Golden Dawn
Joanna Hill
McGredy's Yellow
Seour Therese

Blends

Condesa de Sastago
E. N. Perkins
Mme. Henri Guillot
Mme. Joseph Perraud
Mrs. Sam McGredy
Fres. Herbert Hoover

White

Caledonia
K. A. Viktoria
Virgo

CLIMBERS

Red
Blaze (Improved)
Cl. Etoile de Hollande
Paul's Scarlet
Pink
New Dawn
White
City of York
Yellow
Goldrush
Cl. Mrs. P. S. du Pont
Bicolor
Cl. Herbert Hoover
Cl. Talisman
Cl. Comtesse Vandal

FLORIBUNDAS

Red

Donald Prior
Floradora
Red Ripples

White

Dagmar Spaeth

Pink

Betty Prior
Pinocchio
Rose Elf
The Fairy

MICHIGAN GROWN

Prices listed are 30 rate.

SHADE TREES

Amur Maple, bush form
3 to 4 ft. \$ 1.25
4 to 5 ft. 2.00
5 to 6 ft. 2.75
6 to 8 ft. 3.50
8 to 10 ft. 4.50
10 to 12 ft. 5.75
Norway Maple
1½ to 1¾-in. cal. 5.00
1¾ to 2-in. cal. 6.00
2 to 2½-in. cal. 7.00
2½ to 3-in. cal. 12.00
Schwedler Maple
1½ to 1¾-in. cal. 5.00
1¾ to 2-in. cal. 6.00
2 to 2½-in. cal. 7.50
2½ to 3-in. cal. 12.00
Green Ash
6 to 8 ft. 2.25
8 to 10 ft. 3.00
10 to 12 ft. 4.00
12 to 14 ft. 6.00
Moraine Locust (Plant
Patent No. 836)
Straight trunks.
6 to 8 ft. 5.00
8 to 10 ft. 7.00
10 to 12 ft. 9.00
12 to 14 ft. 11.25
Poplar, Lombardy and
Bolleana
5 to 6 ft. 1.00
6 to 8 ft. 1.50
8 to 10 ft. 1.75
10 to 12 ft. 2.75
12 to 14 ft. 4.00
14 to 16 ft. 5.50

FRENCH LILAC

Heavy, choice and well budded.
15 to 18 ins. \$0.50 2 to 3 ft. \$1.00
1½ to 2 ft.75 3 to 4 ft. 1.25
18 ins. 2 ft. 3 ft. 4 ft.
Alphonse Lavallee X X X X
Bleuatre X X X X
Charles Joly X X X X
Charles X X X X X
Claude Bernard X X X X
Ellen Willmott X X X X
General Sheridan X X X X
Ludwig Spaeth* X X X X
Mme. C. Perier X X X X
Marie Legraye X X X X
Montaigne X X X X
President Carnot* X X X X
President Grevy X X X X
*Varieties add 5c

Our Standards of quality have been winning friends for many years.

For early potting order now. Our roses can be shipped at once, or when you are ready.

Waxing optional with clear wax 2c per rose. A color picture of each variety with each order upon request. Additional pictures at minimum cost.

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Patent Rose Prices No. 1

Suggested Retail	1 to 9	10 to 19	20 to 99	100 to 249	250 and up
\$1.75	\$1.15	\$1.00	\$0.87½	\$0.80	\$0.75
1.85	1.20	1.05	.92½	.85	.80
2.00	1.25	1.10	1.00	.95	.85
2.25	1.40	1.25	1.12½	1.05	.95
2.50	1.60	1.40	1.25	1.20	1.10
2.75	1.75	1.50	1.37½	1.30	1.20
3.00	1.90	1.65	1.50	1.40	1.30
3.50	2.20	1.90	1.75	1.65	1.50
5.00	3.00	2.75	2.50	2.20	1.85

No. 1½ grade less 20%.

Nonpatented No. 1	.80	.70	.65	.60	.55
Nonpatented No. 1½	.70	.60	.55	.50	.43

Cartwright Nursery Co.

We have had a wonderful growing season, and we have available for the 1961 season the largest stock of top-quality evergreens that we have ever offered. We would be very happy to have you visit us at the nursery and see our stock growing in the fields. We are, at this time, using 2400 acres of good west Tennessee land to produce for you the very best in evergreens, and we think it would be worth your time to visit us if you are interested in the best stock available at very reasonable prices.

	Each	Each		Each	Each		Each	Each
	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
Dark Green American Arborvitae			Pfitzer Juniper			Variegata Juniper		
18 to 24 ins.	\$1.25	\$1.00	12 to 15 ins.	\$1.25	\$1.10	18 to 24 ins.	\$1.75	\$1.50
24 to 30 ins.	1.75	1.50	15 to 18 ins.	1.70	1.50	2 to 3 ft.	2.25	2.00
30 to 36 ins.	2.25	2.00	18 to 24 ins.	2.25	2.00	Densa glauca Juniper		
3 to 4 ft.	3.00	2.50	24 to 30 ins.	2.75	2.50	2 to 3 ft.	2.00	1.75
Compacta erecta Globe Arborvitae			Pfitzer Juniper, Blue			3 to 4 ft.	2.75	2.50
12 to 15 ins.	1.25	1.00	12 to 15 ins.	1.25	1.10	Hetzl glauca Juniper, staked		
15 to 18 ins.	1.50	1.25	15 to 18 ins.	1.70	1.50	2 to 3 ft.	3.00	2.75
18 to 24 ins.	1.75	1.50	18 to 24 ins.	2.25	2.00	3 to 4 ft.	4.00	3.75
24 to 30 ins.	2.25	2.00	Blue Vase Juniper			Chinese mascula Juniper		
30 to 36 ins.	2.75	2.50	15 to 18 ins.	1.70	1.50	3 to 4 ft.	3.25	3.00
Globe American Arborvitae			Pfitzer Juniper (Gold Tip)			4 to 5 ft.	4.25	4.00
12 to 15 ins.	1.25	1.00	15 to 18 ins.	1.70	1.50	Chinensis columnaris Juniper		
15 to 18 ins.	1.50	1.25	30 to 36 ins.	3.50	3.00	2 to 3 ft.	2.75	2.50
18 to 24 ins.	2.00	1.75	Pfitzer Compacta Juniper (Kallay)			3 to 4 ft.	3.75	3.50
24 to 30 ins.	2.50	2.25	12 to 15 ins.	1.25	1.10	Sylvestris Juniper		
30 to 36 ins.	3.00	2.75	15 to 18 ins.	1.70	1.50	3 to 4 ft.	3.00	2.75
Globe Parson's Compacta Arborvitae			18 to 24 ins.	2.25	2.00	Sabina Von Ehron Juniper, staked		
15 to 18 ins.	1.75	1.50	24 to 30 ins.	2.75	2.50	2 to 3 ft.	3.00	2.75
Siberian Arborvitae			Pfitzer Compacta Juniper (Nick's)			3 to 4 ft.	4.00	3.75
(Thuja wareana)			12 to 15 ins.	1.25	1.10	Scopulorum Blue Haven Juniper		
15 to 18 ins.	1.25	1.00	15 to 18 ins.	1.70	1.50	2 to 3 ft.	2.75	2.50
18 to 24 ins.	1.75	1.50	18 to 24 ins.	2.25	2.00	3 to 4 ft.	3.75	3.50
Pyramidal American Arborvitae			24 to 30 ins.	2.75	2.50	4 to 5 ft.	4.75	4.50
18 to 24 ins.	1.50	1.25	Pfitzer Nana Juniper (Armstrong)			Sparta Juniper		
24 to 30 ins.	1.75	1.50	12 to 15 ins.	1.25	1.10	2 to 3 ft.	2.75	2.50
30 to 36 ins.	2.50	2.25	15 to 18 ins.	1.70	1.50	Virginiana Juniper (Red Cedar)		
3 to 4 ft.	3.00	2.75	18 to 24 ins.	2.25	2.00	2 to 3 ft.	1.75	1.50
4 to 5 ft.	3.50	3.25	30 to 36 ins.	3.25	3.00	3 to 4 ft.	2.25	2.00
5 to 6 ft.	4.00	3.75	Maneyi Juniper			4 to 5 ft.	3.00	2.75
Baker's Arborvitae			15 to 18 ins.	2.00	1.75	Virginiana burki Juniper		
24 to 30 ins.	1.35	1.10	18 to 24 ins.	2.50	2.25	2 to 3 ft.	2.75	2.50
30 to 36 ins.	1.60	1.35	Meyeri Juniper			3 to 4 ft.	3.75	3.50
Berckmans Golden Arborvitae			15 to 18 ins.	2.00	1.75	4 to 5 ft.	4.75	4.50
12 to 15 ins.	1.25	1.00	18 to 24 ins.	2.50	2.25	Virginiana Canaerti Juniper		
15 to 18 ins.	1.40	1.20	Repandens Juniper			2 to 3 ft.	2.75	2.50
18 to 24 ins.	1.70	1.50	15 to 18 ins.	1.25	1.10	3 to 4 ft.	3.75	3.50
24 to 30 ins.	2.25	2.00	18 to 24 ins.	1.75	1.50	4 to 5 ft.	4.75	4.50
Blue Cone Arborvitae			24 to 30 ins.	2.25	2.00	5 to 6 ft.	6.00	5.50
18 to 24 ins.	1.20	1.00	30 to 36 ins.	2.75	2.50	Virginiana Dundee Juniper		
24 to 30 ins.	1.45	1.25	Sabina Juniper			2 to 3 ft.	2.75	2.50
30 to 36 ins.	1.70	1.50	12 to 15 ins.	1.20	1.00	Virginiana glauca Juniper		
3 to 4 ft.	2.25	2.00	15 to 18 ins.	1.50	1.25	3 to 4 ft.	3.75	3.50
Bonita Arborvitae			18 to 24 ins.	2.00	1.75	2 to 3 ft.	2.75	2.50
15 to 18 ins.	1.35	1.20	Sabina horizontalis Juniper			Cupressifolia Juniper (Hillspire)		
18 to 24 ins.	1.70	1.50	15 to 18 ins.	1.70	1.50	3 to 4 ft.	3.75	3.50
24 to 30 ins.	2.25	2.00	18 to 24 ins.	2.25	2.00	4 to 5 ft.	4.75	4.50
30 to 36 ins.	2.75	2.50	Sabina tamariscifolia Juniper			5 to 6 ft.	6.00	5.50
Excelsa Arborvitae			15 to 18 ins.	1.75	1.50	Virginiana keteleeri Juniper		
24 to 30 ins.	1.45	1.25	Sabina Von Ehron Juniper			2 to 3 ft.	2.25	2.00
30 to 36 ins.	1.70	1.50	15 to 18 ins.	1.50	1.25	5 to 6 ft.	5.50	5.00
3 to 4 ft.	2.25	2.00	18 to 24 ins.	2.00	1.75	Fastigiata Juniper		
4 to 5 ft.	3.00	2.50	24 to 30 ins.	2.50	2.25	24 to 30 ins.	1.20	1.00
Fruitlandi Arborvitae			30 to 36 ins.	3.00	2.75	30 to 36 ins.	1.50	1.25
18 to 24 ins.	1.70	1.50	Sabina Von Ehron Juniper, globes			3 to 4 ft.	1.75	1.50
24 to 30 ins.	2.25	2.00	15 to 18 ins.	2.00	1.75	4 to 5 ft.	2.00	1.75
Mayhews Arborvitae			18 to 24 ins.	2.50	2.00	5 to 6 ft.	2.25	2.00
30 to 36 ins.	1.70	1.50	24 to 30 ins.	3.00	2.50	6 to 8 ft.	3.50	3.00
3 to 4 ft.	2.25	2.00	Sargenti Juniper			Cedrus atlantica		
Newarkii Arborvitae			12 to 15 ins.	1.25	1.10	2 to 3 ft.	1.75	1.50
24 to 30 ins.	1.45	1.25	Virginiana globosa Juniper			3 to 4 ft.	2.75	2.50
30 to 36 ins.	1.70	1.50	15 to 18 ins.	2.75	2.50	4 to 5 ft.	3.75	3.50
3 to 4 ft.	2.25	2.00	18 to 24 ins.	3.50	3.25	5 to 6 ft.	4.75	4.50
4 to 5 ft.	2.75	2.50	Virginialis Juniper			Cedrus deodara		
Andorra Juniper			12 to 15 ins.	1.25	1.10	2 to 3 ft.	1.75	1.50
12 to 15 ins.	1.25	1.10	15 to 18 ins.	1.50	1.25	3 to 4 ft.	2.75	2.50
15 to 18 ins.	1.50	1.25	18 to 24 ins.	2.00	1.75	4 to 5 ft.	3.75	3.50
18 to 24 ins.	1.75	1.50	24 to 30 ins.	2.50	2.25	Chamaecyparis plumosa, green		
24 to 30 ins.	2.25	2.00	Ames Juniper			2 to 3 ft.	2.00	1.75
30 to 36 ins.	2.75	2.50	2 to 3 ft.	2.75	2.50	3 to 4 ft.	2.50	2.25
Chinensis procumbens Juniper			3 to 4 ft.	3.75	3.50	4 to 5 ft.	3.25	3.00
12 to 15 ins.	1.25	1.10	Excelsa stricta Juniper			Chamaecyparis plumosa aurea		
15 to 18 ins.	1.70	1.50	12 to 15 ins.	1.15	1.00	2 to 3 ft.	2.00	1.75
Golden Canadian Juniper			15 to 18 ins.	1.35	1.20	3 to 4 ft.	2.50	2.25
15 to 18 ins.	1.70	1.50	18 to 24 ins.	1.75	1.50	Austrian Pine		
Hetzl glauca Juniper			24 to 30 ins.	2.25	2.00	2 to 3 ft.	2.25	2.00
12 to 15 ins.	1.20	1.00	30 to 36 ins.	3.00	2.75	3 to 4 ft.	3.25	3.00
15 to 18 ins.	1.45	1.30	3 to 4 ft.	3.50	3.25	4 to 5 ft.	4.25	4.00
18 to 24 ins.	2.00	1.75	4 to 5 ft.	4.00	3.75	5 to 6 ft.	5.50	5.00
24 to 30 ins.	2.50	2.25	Chinensis Iowa Juniper			White Pine		
30 to 36 ins.	3.00	2.75	2 to 3 ft.	2.75	2.50	2 to 3 ft.	2.25	2.00
Hetzl glauca Juniper, globes			Nova Juniper			3 to 4 ft.	3.25	3.00
15 to 18 ins.	2.00	1.75	2 to 3 ft.	2.25	2.00	4 to 5 ft.	4.25	4.00
18 to 24 ins.	2.50	2.00	3 to 4 ft.	2.75	2.50	5 to 6 ft.	5.50	5.00
24 to 30 ins.	3.00	2.50						

		Each	Each			Each	Each			Each	Each
		Per 10	Per 100			Per 10	Per 100			Per 10	Per 100
<i>Abelia grandiflora</i>	2 to 3 ft.	\$1.25	\$1.00	<i>Ilex crenata repandens</i>	12 to 15 ins.	\$1.25	\$1.00	<i>Lonicera yunnanensis</i>	15 to 18 ins.	\$1.20	\$1.20
<i>Anise (Illicium)</i>	15 to 18 ins.	1.50	1.25		18 to 24 ins.	1.50	1.25		18 to 24 ins.	1.50	1.25
	2 to 3 ft.	2.25	2.00		24 to 30 ins.	2.00	1.75	<i>Loropetalum chinensis</i>	15 to 18 ins.	1.15	1.00
	3 to 4 ft.					2.25	2.00		18 to 24 ins.	1.40	1.25
<i>Berry, Julianae</i>	15 to 18 ins.	1.75	1.50	<i>Ilex crenata rotundifolia</i>	12 to 15 ins.	1.15	1.00		24 to 30 ins.	1.75	1.50
	18 to 24 ins.	2.25	2.00		15 to 18 ins.	1.40	1.25	<i>Magnolia alexandrina</i>	4 to 5 ft.	3.75	3.50
<i>Boxwood, harlandi</i>	8 to 10 ins.	.85	.75		18 to 24 ins.	1.55	1.50				
	10 to 12 ins.	1.15	1.00		24 to 30 ins.	2.25	2.00	<i>Magnolia glauca</i>	2 to 3 ft.	1.75	1.50
	12 to 15 ins.	1.40	1.25	<i>Ilex crenata rotundifolia, pyramids</i>	24 to 30 ins.	2.25	2.00		3 to 4 ft.	2.25	2.00
	15 to 18 ins.	1.65	1.50		30 to 36 ins.	3.00	2.75		4 to 5 ft.	2.75	2.50
<i>Boxwood, sempervirens</i>	12 to 15 ins.	1.40	1.25		3 to 4 ft.	4.00	3.50		5 to 6 ft.	3.50	3.25
	15 to 18 ins.	2.25	2.00	<i>Ilex glabra</i>	15 to 18 ins.	1.20	1.00		6 to 8 ft.	5.50	5.00
	18 to 24 ins.	2.75	2.50		18 to 24 ins.	1.75	1.50	<i>Magnolia grandiflora</i>	2 to 3 ft.	1.75	1.50
<i>Boxwood, welleri</i>	12 to 15 ins.	1.40	1.25		24 to 30 ins.	2.25	2.00		3 to 4 ft.	2.75	2.50
					30 to 36 ins.	2.75	2.50		4 to 5 ft.	3.75	3.50
<i>Cleyera japonica</i>	15 to 18 ins.	1.20	1.00	<i>Ilex opaca, seedlings</i>	2 to 3 ft.	1.75	1.50		5 to 6 ft.	5.50	5.00
	18 to 24 ins.	1.75	1.50		3 to 4 ft.	2.75	2.50	<i>Magnolia rustica rubra</i>	4 to 5 ft.	3.75	3.50
<i>Elaeagnus fruticand</i>	2 to 3 ft.	1.25	1.00		4 to 5 ft.	3.75	3.50				
	3 to 4 ft.	1.75	1.50		5 to 6 ft.	5.50	5.00	<i>Magnolia soulangiana</i>	2 to 3 ft.	2.00	1.75
<i>Elaeagnus simoni</i>	2 to 3 ft.	1.25	1.00	<i>Ilex Croonenburg</i>	2 to 3 ft.	2.25	2.00		3 to 4 ft.	2.75	2.50
	3 to 4 ft.	1.75	1.50		3 to 4 ft.	3.25	3.00		4 to 5 ft.	3.75	3.25
<i>Eunymus alatus compactus</i>	18 to 24 ins.	1.50	1.25		4 to 5 ft.	4.25	4.00		5 to 6 ft.	4.50	4.00
	24 to 30 ins.	1.75	1.50	<i>Ilex East Palatka</i>	2 to 3 ft.	1.75	1.50	<i>Magnolia soulangiana nigra</i>	3 to 4 ft.	2.75	2.50
<i>Eunymus coloratus</i>	18 to 24 ins.	1.25	1.00		3 to 4 ft.	2.75	2.50				
	24 to 30 ins.	1.50	1.25		4 to 5 ft.	3.75	3.50	<i>Magnolia stellata</i>	18 to 24 ins.	2.00	1.75
	30 to 36 ins.	2.25	2.00		5 to 6 ft.	5.50	5.00		2 to 3 ft.	3.00	2.50
<i>Eunymus fortunei erectus</i>	15 to 18 ins.	1.25	1.00	<i>Ilex opaca fosteri</i>	2 to 3 ft.	2.25	2.00		3 to 4 ft.	4.50	4.00
	18 to 24 ins.	1.50	1.25		3 to 4 ft.	3.25	3.00	<i>Nandina domestica</i>	15 to 18 ins.	.90	.75
	24 to 30 ins.	1.70	1.50		4 to 5 ft.	4.25	4.00		18 to 24 ins.	1.20	1.00
<i>Eunymus japonicus</i>	18 to 24 ins.	1.15	1.00	<i>Ilex howardi</i>	2 to 3 ft.	2.25	2.00		24 to 30 ins.	1.50	1.25
	24 to 30 ins.	1.70	1.50		3 to 4 ft.	3.25	3.00		30 to 36 ins.	1.75	1.50
	30 to 36 ins.	2.25	2.00	<i>Ilex Hume No. 2</i>	2 to 3 ft.	2.25	2.00	<i>Nandina domestica, dwarf</i>	15 to 18 ins.	1.15	1.00
<i>Eunymus patens</i>	18 to 24 ins.	1.20	1.00		3 to 4 ft.	3.25	3.00		18 to 24 ins.	1.40	1.25
	2 to 3 ft.	1.75	1.50	<i>Ilex Reynolds</i>	2 to 3 ft.	2.25	2.00	<i>Osmanthus aquifolium</i>	18 to 24 ins.	1.50	1.25
	3 to 4 ft.	2.25	2.00		3 to 4 ft.	3.25	3.00	<i>Osmanthus fortunei</i>	18 to 24 ins.	1.50	1.25
<i>Eunymus radicans,</i> several selected types	15 to 18 ins.	1.20	1.00		4 to 5 ft.	4.25	4.00		24 to 30 ins.	1.75	1.50
	18 to 24 ins.	1.50	1.25	<i>Ilex Taber</i>	3 to 4 ft.	3.25	3.00	<i>Photinia serrulata</i>	18 to 24 ins.	1.20	1.00
	24 to 30 ins.	1.75	1.50		4 to 5 ft.	4.25	4.00		2 to 3 ft.	1.75	1.50
	30 to 36 ins.	2.25	2.00	<i>Ilex vomitoria</i>	15 to 18 ins.	1.15	1.00	<i>Viburnum burkwoodi</i>	18 to 24 ins.	1.50	1.25
<i>Ilex cassine angustifolia</i>	3 to 4 ft.	3.50	3.00		18 to 24 ins.	1.40	1.25		24 to 30 ins.	1.75	1.50
	4 to 5 ft.	4.50	4.00		24 to 30 ins.	1.75	1.50		30 to 36 ins.	2.25	2.00
<i>Ilex cornuta burfordi</i>	15 to 18 ins.	1.20	1.00		30 to 36 ins.	2.25	2.00		3 to 4 ft.	2.75	2.50
	18 to 24 ins.	1.50	1.25	<i>Ilex vomitoria Pride of Houston</i>	15 to 24 ins.	1.40	1.25	<i>Viburnum chenaulti</i>	18 to 24 ins.	1.50	1.25
	24 to 30 ins.	1.75	1.50		24 to 30 ins.	1.75	1.50		24 to 30 ins.	1.75	1.50
	30 to 36 ins.	2.50	2.25		30 to 36 ins.	2.25	2.00		30 to 36 ins.	2.25	2.00
	3 to 4 ft.	3.50	3.00	<i>Ilex vomitoria, dwarf</i>	12 to 15 ins.	1.50	1.25		3 to 4 ft.	2.75	2.50
<i>Ilex cornuta femina</i>	15 to 18 ins.	1.20	1.00					<i>Viburnum juddi</i>	18 to 24 ins.	1.50	1.25
	18 to 24 ins.	1.50	1.25	<i>Jasmine, floridum</i>	15 to 18 ins.	1.20	1.00		24 to 30 ins.	1.75	1.50
	24 to 30 ins.	1.75	1.50		18 to 24 ins.	1.50	1.25	<i>Viburnum rhytidophyllum</i>	18 to 24 ins.	1.75	1.50
	30 to 36 ins.	2.50	2.25		2 to 3 ft.	1.75	1.50		24 to 30 ins.	2.00	1.75
<i>Ilex cornuta Hume</i>	15 to 18 ins.	1.50	1.25	<i>Laurel, Cherry</i>	2 to 3 ft.	1.50	1.25		30 to 36 ins.	2.50	2.25
	18 to 24 ins.	1.75	1.50		3 to 4 ft.	1.75	1.50		3 to 4 ft.	3.25	3.00
	24 to 30 ins.	2.25	2.00		4 to 5 ft.	2.50	2.25		4 to 5 ft.	4.50	4.00
	30 to 36 ins.	2.75	2.50		5 to 6 ft.	3.50	3.00	<i>White Dogwood</i>	2 to 3 ft.	1.20	1.00
<i>Ilex cornuta rotunda</i>	12 to 15 ins.	1.50	1.25		6 to 8 ft.	5.00	4.50		3 to 4 ft.	1.75	1.50
				<i>Laurel, English</i>	15 to 18 ins.	1.25	1.00		4 to 5 ft.	2.25	2.00
<i>Ilex crenata convexa</i>	12 to 15 ins.	1.00	.80		18 to 24 ins.	1.50	1.25		5 to 6 ft.	3.50	3.00
	15 to 18 ins.	1.25	1.00		2 to 3 ft.	1.75	1.50	<i>White Dogwood (Cherokee Princess)</i>	3 to 4 ft.	2.75	2.50
	18 to 24 ins.	1.75	1.50	<i>Laurel, Zabeli</i>	15 to 18 ins.	1.20	1.00		4 to 5 ft.	3.75	3.50
	24 to 30 ins.	2.25	2.00		18 to 24 ins.	1.75	1.50	<i>Pink Dogwood</i>	2 to 3 ft.	1.75	1.50
<i>Ilex crenata hetsi</i>	12 to 15 ins.	1.20	1.00		2 to 3 ft.	2.50	2.25		3 to 4 ft.	2.75	2.50
	15 to 18 ins.	1.75	1.25	<i>Ligustrum lucidum (Black Wax)</i>	18 to 24 ins.	1.20	1.00	<i>Live Oak, B&B</i>	4 to 5 ft.	2.75	2.50
<i>Ilex crenata latifolia, pyramids</i>	18 to 24 ins.	1.75	1.50		24 to 30 ins.	1.50	1.25		5 to 6 ft.	4.00	3.50
	24 to 30 ins.	2.25	2.00	<i>Ligustrum lucidum Suwannee River</i>	15 to 18 ins.	1.15	1.00			5.50	5.00
	30 to 36 ins.	3.25	3.00		18 to 24 ins.	1.40	1.25	<i>Silver Maple, B&B</i>	6 to 8 ft.	2.00	1.50
	3 to 4 ft.	4.50	4.00		24 to 30 ins.	1.65	1.50		8 to 10 ft.	2.50	2.00
					30 to 36 ins.	2.00	1.75		10 to 12 ft.	3.00	2.50

CARTWRIGHT NURSERY CO. Collierville, Tenn. Phone: UL 3-2352
Highway 72-57, 10 miles east of Memphis

Highway 72-57, 10 miles east of Memphis

PLANT PATENTS

The following plant patents were granted recently, according to Rummel & Snow, Chicago patent attorneys:

No. 1979. Chrysanthemum plant. To Orville O. Dunham, Niles, Mich., assignor to George J. Ball, Inc., West Chicago, Ill. A new and distinct variety of chrysanthemum plant, characterized as to novelty by the pale orange-yellow center; pale pink general tonality; improved reflexed-type bloom, very double arrangement of its petals; the earlier, continuous, long blooming period; its more vigorous, compact plant habit, and larger, more abundant foliage.

No. 1980. Chrysanthemum plant. To Orville O. Dunham, Niles, Mich., assignor to George J. Ball, Inc., West Chicago, Ill. A new and distinct variety of chrysanthemum plant, characterized as to novelty by the vivid yellow of its blooms; the very double arrangement of the petals; the vigorous, dwarf, compact habit of growth; its much earlier, longer blooming period, and uninterrupted production of blooms during such period.

No. 1981. Rose plant. To Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark, a corporation of New York. A new and distinct variety of rose plant of the floribunda class, characterized particularly as to novelty by the unique combination of well-shaped, full-bodied buds which are especially suited for cut flowers as grown in the greenhouse; the large number of flower petals, which open into very attractive flowers of good form; the long-lasting quality of the flowers, and the distinctive white general color tonality of the flowers.

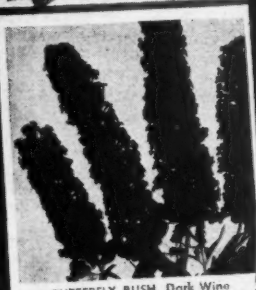
No. 1982. Rose plant. To Dennison H. Morey, Jr., Pleasanton, Calif., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the unique combination of a prolific cut flower production; an attractive and distinctive bud form that is particularly effective as a cut flower; a distinctive scarlet-red, lightly overcast with rose red, general color tonality of the flowers, and a strong flower fragrance.

No. 1983. Azalea plant. To Lenard L. Brooks, Modesto, Calif. A new and distinct variety of azalea plant, characterized particularly by its compact habit of growth; its deep green, heavy-textured leaves; its habit of setting many multiple flower buds; the abundance of the long-lasting red flowers; its ease of reproduction by cuttings, and its high value as a late greenhouse forcing and garden variety for mild climates.

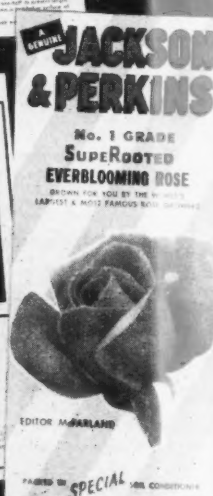
No. 1984. Rose plant. To Dennison H. Morey, Jr., Pleasanton, Calif., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the miniature class, characterized particularly as to novelty by the unique combination of a miniature plant and flower size; a flowering formation similar to that of the parent variety Cecile Brunner (unpatented), with three or four buds being borne together; a distinctive Venetian pink shading of the buds, and

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HARDY
FLOWERING
SHRUBS**
Triple-Pac
FORSYTHIA (SHRUB)

New! VIBURNUM CARLESI COMPACTA



New VIBURNUM CARLESI COMPACTA

This plant was discovered several years ago in the nursery in a block of Viburnum carlesii. It is slower growing and has distinct dark green shiny leaves. It grows into a very compact plant and for this reason is called Compacta, ideal for use in

foundation plantings. It buds up very heavily when a matured plant. The size, color and fragrance of the flowers are exactly like those of Viburnum carlesii. This plant is a distinct novelty of which a limited quantity is offered for the first time this year.

	Per 100 Each	Per 1000 Each
Strong, 2-year grafts	\$1.25	\$1.00

See reverse side for additional listings.

C. HOOGENDOORN, Nurseryman
408 Turner Road **NEWPORT, R. I.**

LINING-OUT STOCK and LANDSCAPE MATERIAL

SPRING 1961

LINING-OUT STOCK

	Each Per 100	Each Per 1000
** <i>Acer palmatum atropurpureum</i> (Dark Red Japanese Maple). Selected types, 3-yr. grafts, 18-24 in.	\$2.00	
<i>Acer palmatum atropurpureum</i> BLOOD-GOOD (very dark red Japanese Maple and very scarce). Strong 2-yr. grafts, 12-15 in.	1.75	
<i>Acer palmatum atropurpureum</i> OSHIU BENI (Light red Japanese Maple). Strong 2-yr. grafts, 12-15 in.	1.50	
** <i>Buxus sempervirens</i> . True. 2-yr. T. (suitable for edging). 8-10 in. ....	.20	.17 1/2
<i>Cornus elegantissima</i> . 1-yr. T. ....	.15	
<i>Cornus florida fastigiata</i> (White Upright Dogwood). 3-yr. grafts, 2-2 1/2 ft.	1.25	
<i>Cotoneaster divaricata</i> (Spreading Cotoneaster). 1-yr., S. ....	.10	.09
<i>Cotoneaster horizontalis</i> . 1-yr., S. ....	.15	.12
<i>Euonymus alatus compactus</i> (Dwarf Winged Euonymus). 2-yr., T., 10-15 in. ....	.30	.25
<i>Euonymus alatus compactus</i> . Branched, 3-yr. T., 12-18 in. ....	.45	.40
<i>Fagus sylvatica asplenifolia</i> (Fernleaf Beech). 18-24 in.	2.00	
<i>Fagus sylvatica riversi</i> (Rivers' Purple Beech). 18-24 in.	1.75	

HYDRANGEA HORTENSIS

(Hardy, Deep Pink, Compact Grower)

	Each Per 100	Each Per 1000
Rooted cuttings in 2 1/2 in. pots	\$0.30	\$0.25
1-yr., T., from cuttings ....	.50	.45

HYDRANGEA PETIOLARIS (True)

(Climbing Hydrangea)

An attractive vine which does equally well in shade or sun. Rooted cuttings from 2 1/2 in. pots. (May delivery) \$40.00 per 100; \$350.00 per 1000.

<i>Ilex compacta</i> . 2-yr., T., 4-6 in. spread ..	.30	.25
<i>Ilex hetzi</i> . 2-yr., T., 8-12 in. ....	.30	.25
<i>Ilex rotundifolia</i> . 2-yr., T., 8-12 in. ....	.30	.25
<i>Laburnum vulgare</i> . 1-yr., S., 12-18 in. ....	.15	.12 1/2
<i>Magnolia alexandrina</i> . 2-yr., T., cuttings, 18-24 in. ....	.75	
<i>Magnolia Dr. Merrill</i> . 2-yr., T., cuttings, 18-24 in.	1.00	
<i>Magnolia soulangeana</i> . 2-yr., T., cuttings, 18-24 in. ....	.60	
<i>Magnolia soulangeana alba</i> . 2-yr., T., cuttings, 18-24 in. ....	.75	
<i>Picea pungens glauca</i> (Colorado Blue Spruce). 4-yr., T., 6-9 in. ....	.25	.20

PIERIS JAPONICA (Pink Andromeda)

Decidedly pink in bud and when the flower first opens up, then fades to white. Slower and more compact grower than the regular *Pieris Japonica*. 3-yr., TT., 6-10 in. 50c each.

<i>Pinus cembra</i> (Swiss Stone Pine). 1-yr. grafts, 8-10 in.	1.25	
<i>Pinus parviflora glauca</i> (Japanese White Pine). 2-yr. grafts, 8-10 in.	2.00	
<i>Prunus kwanzan</i> . 2 1/4 in. peat pots ....	.40	
<i>Prunus kwanzan</i> (Japanese Flowering Cherry). Tree form, 2-yr., 5-6 ft. whips, B.R.	1.50	1.25

LINING-OUT STOCK

	Each Per 100	Each Per 1000
<i>Pseudotsuga taxifolia glauca</i> (Blue Douglas Fir). 4-yr., T., 8-10 in.	\$0.25	\$0.20
<i>Rhododendron wilsoni</i> . 2-yr., T.	1.25	1.00

RHUS COTINUS ROYAL PURPLE

(NEW dark purple-red leaf Smokebush)

Royal Purple keeps its rich dark purple reddish colored foliage from spring to late fall. In late summer the matured leaves show a mottled edge which is a light red edge around the dark purple leaf. Royal purple is the only purple Smokebush to receive a Certificate of Merit from the Royal Horticultural Society.

	Each Per 100	Each Per 1000
**1-yr. grafts bedded (Good size for canning).	\$0.75	\$0.60
2-3 ft., 2-5 branches, B. R.	1.25	1.00
3-4 ft., B. R.	1.75	1.50

<i>Taxus brevifolia</i> (nana) Dwarf Japanese Yew. 2-yr., T. ....	.40	.35
<i>Taxus brevifolia</i> (nana) (Dwarf Japanese Yew). 4-yr., TT., FR. ....	.60	.50
<i>Taxus cuspidata</i> . 2-yr., T. ....	.40	.35
<i>Taxus cuspidata</i> . 4-yr., TT., FR. ....	.60	.50
<i>Taxus densiformis</i> . 2-yr., T. ....	.45	.40
<i>Taxus densiformis</i> . 4-yr., TT., 9-12 in., FR. ....	.75	.60
<i>Taxus hatfieldi</i> . 2-yr., T., 8-12 in. ....	.40	.35
<i>Taxus hatfieldi</i> . 3-yr., T., 8-12 in. ....	.50	.45
<i>Taxus intermedia</i> . 2-yr., T. ....	.40	.35
<i>Taxus intermedia</i> . 4-yr., TT., FR. ....	.60	.50
<i>Thuja nigra</i> . 2-yr., T., 12-15 in. ....	.40	.35
<i>Thuja</i> (Biot) <i>aurea nana</i> . Strong 2-yr., T., cuttings, 10-12 in. ....	.50	.45
<i>Thuja woodwardi</i> . 2-yr., T. ....	.35	.30
<i>Viburnum carlesi</i> . 2-yr., S., 4-6 in. ....	.15	.12 1/2
<i>Viburnum carlesi</i> . 2-yr., S., 6-8 in. ....	.20	.17 1/2

VIBURNUM CARLESI COMPACTA

(NEW)

This is a compact form of *Viburnum carlesi* with dark green leaves and buds up very readily. (See description and colored picture on the reverse side). Strong 2-yr. grafts 15-18 in. per 100, \$1.25 each; per 1000, \$1.00 each.

<i>Viburnum setigerum</i> (or <i>Theiferum</i>). 1-yr., S., 8-12 in. ....	.12	.10
<i>Viburnum setigerum</i> (or <i>Theiferum</i>). 2-yr., T., from cuttings, 2-2 1/2 ft. ....	.50	

VIBURNUM WRIGHTI

Upright and slow grower. The leaf is deeply veined and the bright red berries color up in August and remain bright red throughout the fall even after the foliage takes on a fall color. The plant is excellent for berry effect.

	Each Per 100	Each Per 1000
2-yr., S., 15-18 in.	\$0.15	\$0.12
2-yr., T., from cuttings, 18-24 in. ....	.50	

(Items marked with a double asterisk (**) are suitable for mail order trade and canning).

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"Where Quality Excels"

a distinctive La France pink general color tonality of the flowers.

No. 1985. Rose plant. To Herbert C. Swim, Ontario, Calif., and O. L. Weeks, Chino, Calif. A new and distinct variety of rose plant of the grandiflora class, characterized particularly as to novelty by the unique combination of high productivity of flowers of good quality suitable as cut flowers when grown under greenhouse conditions (with a relatively high proportion of the flowers borne singly, a relatively large flower size comparable to that of varieties of the hybrid tea class and substantially larger than most varieties of the floribunda class and relatively uniform flower petalage) and a multicolor general color tonality of the flowers characterized by a distinctive gold or yellow color blend.

No. 1986. Rose plant. To Reimer Kordes, Barmstedt, Germany, assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the floribunda class, characterized particularly as to novelty by the unique combination of symmetry of the plant and the flowers, with the flowers distributed uniformly over the plant; a free-flowering habit; a distinctive and nonfading deep velvety crimson general tonality of the flowers, with a light overcast of spectrum red, and the unusual and distinctive carrying power of the flower color, which is detectable even at a long distance.

No. 1987. Rose plant. To Frank C. Raffel, Stockton, Calif. A new and distinct variety of half-hardy, tall, bush-type rose plant of the floribunda class, characterized, in comparison to the seed parent, Little Darling, and the pollen parent, Gertrude Raffel, by a vigorous upright bush, which is better shaped, with fewer thorns; by abundant dark green foliage having more and larger leaflets closer to the flowers; by highly attractive double petalage flowers, which in the bud stage and when the calyx first breaks are red and upon opening are a brilliant white, with the petals margined and blotched adjacent to the margin in red, with light yellow adjacent to the base, and by flowers which persist in color and keep longer after opening.

All patents prior to plant patent No. 610 have expired and become public property. Until the actual date of expiration, a plant patent excludes others than the patent holder from propagating as well as growing or selling the plant.

FARLEY TO GREENING'S

Mrs. Charles Greening, president of the Greening Nursery Co., Monroe, Mich., announces that George Farley, formerly of Landscape Supply, Taylor Center, Mich., has joined the company as co-ordinator of sales.

OPENED recently was the Garden Girl Nursery, 534 South Glendora avenue, Glendora, Calif. Kenneth Norgard, a veteran nurseryman, is the manager.

OPERATING Eilers Landscaping & Tree Service, 1711 North Van Buren, Litchfield, Ill., a new firm, is Henry H. Eilers.

Gresham's Nursery, Inc.



6801 MIDLOTHIAN PIKE
RICHMOND 25, VIRGINIA

LINING-OUT STOCK — 2 1/4-IN. POTS

	Per 100	Per 1000		Per 100	Per 1000
ABELIA grandiflora	\$15.00	\$125.00	NANDINA DOMESTICA, B. R.	\$15.00	\$125.00
AUCUBA			OSMANTHUS		
Japonica	17.50	150.00	Aquifolium	20.00	185.00
Japonica variegata	17.50	150.00	PHOTINIA		
BERBERIS			Serrulata	20.00	185.00
Candidula	22.50	200.00	PYRACANTHA		
Julianae nana	22.50	200.00	Crenato-serrata, red	20.00	185.00
BUXUS			Lalandi, orange	22.50	200.00
Sempervirens, heavy			Rogersiana	22.50	200.00
R. C.	7.50	50.00	TEUCRIUM		
Suffruticosa, R. C.	10.00	75.00	CHAMAEDRYS	15.00	125.00
CHAMAECYPARIS (RETINOSPORA)			THUJA (Arborvitae).		
Cyno Viridis	22.50	200.00	American		
COTONEASTER			(nigra compacta)	20.00	185.00
Francheti	12.50	100.00	Bakeri	20.00	185.00
Praecox	20.00	185.00	Elegantissima	20.00	185.00
Repens, evergreen, hardy.			Globosa (Globe)	20.00	185.00
More spreading than			Pyramidalis	20.00	185.00
horizontalis	15.00	125.00			
CUNNINGHAMIA LANCEOLATA					
Glauc (blue)	20.00	185.00			
DEUTZIA					
Gracilis	12.50	100.00			
ELAEAGNUS					
Pungens compacta	20.00	185.00			
ILEX					
Crenata convexa	18.50	175.00			
Crenata microphylla	20.00	185.00			
Crenata microphylla					
erecta	20.00	185.00			
Crenata repandens	20.00	185.00			
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Opaca, cuttings from					
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plants	25.00	225.00			
Opaca Arden	25.00	225.00			
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Opaca Ruby Red	30.00	275.00			
JUNIPERUS					
Andorra	22.50	200.00			
Conferta litoralis					
(Shore Juniper)	22.50	200.00			
Hibernica					
(Irish Juniper)	17.50	150.00			
Pfitzeriana	20.00	185.00			
Pfitzeriana glauca	22.50	200.00			
Sargenti	20.00	185.00			
Stricta	20.00	185.00			
Waukegan	20.00	185.00			
LIGUSTRUM					
Lucidum	17.50	150.00			
Lucidum nobilis	20.00	175.00			
Lucidum recurvifolium	17.50	150.00			
MAGNOLIA					
Grandiflora,					
6 to 8 ins., B. R.	15.00	125.00			

All plants are well established. 2 1/4-in. pots. 250 of one variety at 1000 rate.

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GRESHAM'S NURSERY, INC.

Ground Covers — Old and New

Reported by Roy H. DeBoer

Ground covers for many uses were displayed and described by members of one of the panel groups participating in the recent winter meeting of the New Jersey Association of Nurserymen, held January 12 and 13 at Atlantic City and reported in the February 1 issue of the American Nurseryman. Entitled "Ground Covers Old and New," the discussion was moderated by Joseph Moreau, Moreau Landscape Service, Freehold, N. J.

Mr. Moreau first noted that an examination of present-day needs clearly indicates that the range of materials used for ground cover planting must be broadened beyond myrtle, pachysandra and ivy to include the many other plants that are well adapted as ground covers in certain situations and under certain conditions.

Ground covers may be generally divided into two categories, spreading (myrtle) and sprawling (cotoneaster). Some of their chief landscape uses are for low horizontal line effects in plantings, for erosion control, for textural interest or color variation, as facers for taller plants, as rock garden fillers and as lawn substitutes. Locations for which it is often difficult to select ground cover plants include steep slopes, parched areas, soggy areas and heavily shaded areas.

Specimens Displayed

Several nurserymen participated in the panel by displaying potted specimens of plants which they have been growing and using as ground covers, and giving some pertinent information about these plants.

Roland deWilde, DeWilde's Rhodo-Lake Nursery, Shiloh, N. J., gave the following comments on plants shown:

Calluna vulgaris and its varieties Hammond white, cuprea and tennella withstand fairly low temperatures, need good drainage and thrive under neglect. They should generally be planted in large masses. The height varies with variety, as does time and color of bloom.

Gaylussacia brachycera grows only about nine inches tall and has many attractive flowers. Its one disadvantage is that it is extremely difficult to propagate.

Kalmia angustifolia, the sheep laurel, has light green foliage and bears flowers all along its stems. It

thrives in soggy soil and dense shade and is excellent for interplanting among ericaceous plantings.

Leiophyllum buxifolium, commonly called sand myrtle, grows eventually to two feet high and two and one-half feet wide and can be used in most well-drained situations.

Cotoneaster conspicua decora was cited for its good foliage and occasionally interesting fruit. It is particularly useful as an erosion control plant, because of its tip-layering nature of growth.

Low-Growing Euonymus

William Flemer III, Princeton Nurseries, Princeton, N. J., continued with these recommendations:

Euonymus radicans is a low form with dark green foliage which might be useful for variation of foliage color

in plantings. This low mass will grow in sun or shade and serves as an erosion control plant, competing well with tree roots. Its one serious problem is euonymus scale.

Cotoneaster dammeri was suggested as a ground cover for more refined areas. Good berries and large single flowers are among its attributes. This spreading plant reaches only six to eight inches in height, is tolerant of semiheavy shade, needs good drainage and seems to do particularly well on the north side of a home.

Juniperus Bar Harbor, the most prostrate of all junipers, is valuable for its low habit and gray-green foliage. It will take seashore conditions and seems to thrive on sterile, dry soils, making it a good erosion control plant for dry, sunny banks. Mr.

POTTED ROSES

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PATENTED, \$1.00 to \$1.50, 100 lots

Come and get them (any amount) or let us make arrangements for trucking (1200 to load). Each plant has color tag. Ideal for garden center

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SPECIMEN ILEX CONVEXA

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2½ to 3 ft.	\$4.75
3 to 3½ ft.	5.75
3½ to 4 ft.	6.75
4 to 4½ ft.	9.00

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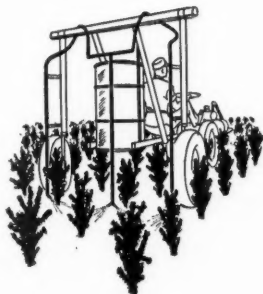
PRE-EMERGENCE HERBICIDE
WEED CONTROL

One application applied prior to weed emergence in fall or early spring will control most annual broadleaf weeds and grasses.

- Three years commercial use.
- Safe to nursery stock when used according to label directions.
- Safe to humans and animals.
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Weed control savings up to \$180.00 per acre have been obtained.

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The cute little girl watering the Star Miniature Roses is going to bring Star Miniature Roses to the attention of nearly 3 million gardeners in leading garden magazines this season.

These advertisements will tell them when, why and where to plant miniature roses. It will also tell them that miniature roses are real roses; that the grain-of-wheat-size buds open to nickel-size blooms—so cute, different and beautiful! They are extremely hardy and everblooming, too.

Be sure to have a good supply of them in stock . . . your customers will be coming in and asking for them.



Brand New!

Star PIXIE GOLD (Pl. Pat. App. for)

Fine bright yellow bud opens to a soft yellow. Grows to about 12".

Star PIXIE ROSE (Pl. Pat. App. for)

Finest deep pink. Free flowering double blooms. Fragrant, too. A compact plant of 10".



ALL NEW SPECIAL OFFER

COLLECTION A1 (50 plants)

25 Pixie Gold
25 Pixie Rose

\$42.50 for one collection

\$39.50 ea. for 3 or more collections

FAVORITE FOUR The STAR Special

COLLECTION A2 (100 plants)

50 Red Imp—rich unfading red
20 Bo-Peep—soft pink
15 Baby Gold Star—golden yellow

15 Cinderella—cream white

\$67.50 for one collection

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Order now! Free culture information, sales aids and large four-color poster shipped with each order.



The Conard-Pyle Co.

WEST GROVE 220, PA.
GROWERS OF FAMOUS STAR ROSES

PACHYSANDRA

Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

	Per 100	Per 1000	5000 or more
Strong, well-rooted, 1-yr. plants; propagated Prepaid F.O.B. here in same shipment in soil and peat frames with light shade. . . .	\$6.50	\$53.00	\$50.00

Available for prompt shipment throughout the year. Shipments anywhere including Canada. GOOD PACKING FREE. A good source of supply.

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HARDY NATIVE FERNS, WILD FLOWERS TREES, SHRUBS AND EVERGREENS

See the February 1 issue for complete list.

ISAAC LANGLEY WILLIAMS
Box AN Exeter, N. H.

Flemer noted that it was his experience that malathion spray caused considerable damage on this plant, whereas lime-sulphur was effective without damage.

Hedera colchica dentata, the coarsest-textured and most vigorous ivy, is a rampant grower, good for large areas in dense or partial shade. It forms a dense 6-inch mat, but will occasionally throw a shoot up to six feet high, or will climb existing trees. Glossy, dark green foliage adds to its attributes. It seems to be extremely hardy when planted in the shade.

Peter Vermeulen, John Vermeulen & Son, Inc., Neshanic Station, N. J., presented the following plants:

Juniperus horizontalis wiltoni, or *wiltoni glauca*, has definite advantages in that it is an extremely low grower and its blue-green foliage holds its color both summer and winter. The branches tend to turn up at the ends, adding to its character. It is hardy, and heavy snow and ice usually do not cause any damage.

Sarcococca for Small Areas

Sarcococca hookeriana humilis is a useful ground cover for small areas. It is quite hardy but may suffer from wind burn. Fragrant flowers, tolerance of many soil types and tolerance of heavy shade or semishade make it desirable.

Juniperus squamata expansa, an old-timer in the industry, still has many uses because of interesting foliage variation, as well as its low growth habit (15 to 18 inches). It is also tolerant of many difficult conditions, as are the other junipers.

Juniperus squamata prostrata (possibly confused with *procumbens nana*) seems to be particularly good for rock gardens. It is a hardy strain and does well in semishade, although growth is better in full sun. One 30-year-old specimen in the state is 10 feet in diameter and has remained extremely low.

Henry Hanneman, Bucklin Fruit Farms & Garden Center, Holmdel, N. J., added the final few plants:

Juniperus conferta (litoralis), commonly known as the shore juniper, does well in full sun or partial shade and maintains excellent winter color. It is a good spreader and fast grower, but does not tip-layer and is somewhat difficult to transplant.

Liriope muscari Majestic and Sheffield, coarse grass or lilylike plants, were among the most unusual ones displayed. *L. muscari* grows to a height of about 15 inches, has a root system similar to that of *hemerocallis* and thrives in deep shade. There is a wide range of foliage sizes



New Wintergreen Boxwood
Photo March 1, 1960

Scarff's New Wintergreen

(*Buxus koreana* Wintergreen)

THE BEST BOXWOOD FOR THE NORTH

Holds its good bright green color throughout the winter in landscape plantings. Excellent specimen or hedge plant. Highly desirable for planter boxes or as a facing plant.

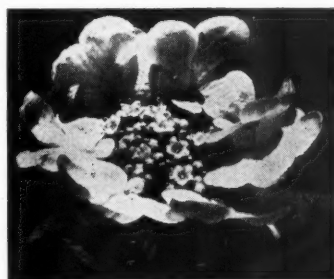
	Each Per 100	Each Per 1000
2-yr., 6 to 9 ins., T.....	\$0.65	\$0.60
2-yr., 9 to 12 ins., T.....	.75	.70

VIBURNUM TOMENTOSUM MARIESI

(Improved Doublefile Viburnum)

Horizontal branching with large flat clusters of creamy-white flowers in May. Brilliant fall color includes red berries and dark Burgundy-red foliage.

	Each Per 100	Each Per 1000
Rooted cuttings	\$0.12½	\$0.10



PYRACANTHA RUNYANI

(Runyan Red Pyracantha)

Excellent orange-red berries. Does especially well in shaded or north side plantings. We consider this to be the best of the redder types of pyracantha for our colder climates. New zone.

	Each Per 100	Each Per 1000
4-in. pots	\$0.65	\$0.60
2¼-in. bands .....	.17½	.15
2-yr., T., 10 to 12 ins....	.20	.17½
2-yr., T., 12 to 15 ins....	.25	.20

B & B SHRUBS

Mainly 3 to 4-ft. and 4 to 5-ft. sizes, these are dug in rotproof burlap and heeled-in in sawdust for early spring pickup. The list below represents a few of the varieties. Please send for a complete list.

Barberry, mentorensis	Viburnum americana
Cotoneaster apiculata	Syringa vulgaris
Cotoneaster divaricata	Viburnum burkwoodii
Cydonia, Scarff strain	Viburnum chenaaultii
Euonymus alatus	Viburnum lantana
compactus	Weigela vaniciei
Forsythia Lynwood Gold	Mountain Ash
Flowering Almond	Crataegus crusgalli
Syringa microphylla	Deutzia compacta
Kolkwitzia	Lonicera fragrantissima

SCARFF'S NEW MIDNITE BLACKBERRY

(Our Introduction in 1958)

We can unhesitatingly recommend this blackberry for its fine fruiting performance and strong, thrifty canes in comparison to other blackberry varieties. The berries are larger than Eldorado, jet black, glossy, with small core and very high in quality.

	Per 1000
No. 1, rooted cuttings.....	\$100.00
¼-in. and up.....	135.00

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SPECIAL**HESS' QUALITY GRAFTS
AT REASONABLE PRICES**

	10	100		10	100
Acer palmatum atropurpureum Bloodgood	\$7.50	\$65.00	Juniperus chinensis Ames	\$6.50	\$55.00
Acer palmatum atropurpureum Oshiu-Beni	7.50	65.00	Juniperus chinensis blaaui	6.50	55.00
Acer palmatum dissectum	7.50	65.00	Juniperus chinensis columnaris glauca	6.50	55.00
Acer palmatum dissectum atropurpureum	7.50	65.00	Juniperus chinensis columnaris viridis	6.50	55.00
Acer platanoides columnare	7.50	65.00	Juniperus chinensis Iowa	6.50	55.00
Acer platanoides Faessen's Black	7.50	65.00	Juniperus chinensis keteleeri	6.50	55.00
Acer rubrum columnare	8.50	75.00	Juniperus chinensis Maney	6.50	55.00
Acer saccharum monumentale	8.50	75.00	Juniperus chinensis Mountbatten	6.50	55.00
Cedrus atlantica glauca	8.50	75.00	Juniperus chinensis sargentii	6.50	55.00
Chamaecyparis obtusa compacta	6.00	50.00	Juniperus chinensis sargentii glauca	6.50	55.00
Chamaecyparis obtusa compacta nana	6.00	50.00	Juniperus scopulorum Blue Haven	6.50	55.00
Chamaecyparis obtusa gracilis	6.00	50.00	Juniperus squamata	6.50	55.00
Cornus florida alba plena	6.50	55.00	Juniperus virginiana burki	6.50	55.00
Cornus florida pendula	7.50	65.00	Juniperus virginiana canaerti	6.50	55.00
Cornus florida rubra Prosser (Red-Flowering Dogwood)	6.50	55.00	Juniperus virginiana elegantissima	6.50	55.00
Cornus kousa chinensis	6.50	55.00	Juniperus virginiana glauca	6.50	55.00
Fagus sylvatica asplenifolia	6.50	55.00	Juniperus virginiana globosa	6.50	55.00
Fagus sylvatica fastigiata	7.50	65.00	Juniperus virginiana pyramidiformis hilli	6.50	55.00
Fagus sylvatica heterophylla	6.50	55.00	Juniperus virginiana schottii	6.50	55.00
Fagus sylvatica pendula	6.50	55.00	Magnolia stellata Water Lily	7.50	65.00
Fagus sylvatica riversi	6.50	55.00	Parrotia persica	6.50	55.00
Hamamelis mollis	6.50	55.00	**Pinus cembra	7.00	60.00
Ilex aquipernyi (female)	7.50	65.00	Thuja orientalis aurea nana	5.50	45.00
Ilex aquipernyi (male)	7.50	65.00	Thuja orientalis conspicua	5.50	45.00
Ilex opaca femina Hook-straw—Judge Brown—Miss Helen	7.50	65.00	Thuja orientalis elegantissima	5.50	45.00
Ilex opaca mascula	7.50	65.00	Tsuga canadensis pendula	7.50	65.00

GRAFTED SPECIALTY ITEMS—LIMITED QUANTITY

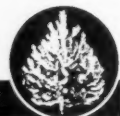
	Each		Each
Abies nobilis glauca	\$1.00	Pinus bungeana	\$0.80
Abies nordmanniana	.85	**Pinus parviflora glauca	1.00
Cornus florida welchi	1.00	**Pinus strobus fastigiata	.80
Fagus sylvatica purpureo pendula	1.00	**Pinus strobus nana	.80
Fagus sylvatica Tricolor	1.00	**Pinus strobus pendula	.80
Magnolia sieboldi parviflora	.85	Sophora japonica pendula	.75

**Five-needle Pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.

HESS' NURSERIES P. O. Box No. 128 Wayne, N. J.

Suncrest Evergreen

PLANTING STOCK



Partial listing shown. Complete range of sizes in these and many other species available.

	Per 100	Per 1000		Per 100	Per 1000
MUGHO PINE			WHITE SPRUCE		
3-yr., S., 5 to 10 ins.	\$4.50	\$30.00	4-yr., S., 12 to 15 ins., root-pruned	\$7.00	\$45.00
CONCOLOR WHITE FIR			6-yr., T., 12 to 15 ins.	10.00	75.00
4-yr., S., 12 to 15 ins., root-pruned	10.00	55.00	4-yr., T., 9 to 12 ins.	9.00	60.00
BALSAW FIR, deep green			COLORADO BLUE SPRUCE		
6-yr., T., 10 to 14 ins.	15.00		4-yr., S., 10 to 14 ins., root-pruned	10.00	60.00
4-yr., T., 5 to 8 ins.	10.00	60.00	4-yr., T., 5 to 10 ins.	12.50	80.00
DOUGLAS FIR			BLACK HILLS SPRUCE		
3-yr., T., 4 to 7 ins.	10.00	60.00	4-yr., S., 10 to 14 ins., root-pruned	6.00	35.00
SIEBOLDI HEMLOCK			5-yr., T., 8 to 11 ins.	10.00	75.00
3-yr., S., 8 to 12 ins.	7.00	40.00	AMERICAN ARBORVITAE		
NORWAY SPRUCE			3-yr., S., 9 to 14 ins.	7.00	35.00
4-yr., S., 12 to 16 ins., root-pruned	7.00	45.00			
4-yr., T., 12 to 18 ins.	10.00	75.00			
4-yr., T., 7 to 12 ins.	9.00	60.00			

Write for Complete PriceList — FREE • SUNCREST NURSERIES • Box 5-F Homer City, Pa.

among its 15 varieties; it is very hardy, and maintains excellent winter foliage color as well as an interesting crop of black fruit.

Sedum acre, spurium, album and reflexum, as well as other sedums, were recommended for a wide range of soil conditions and particularly for rock gardens and for use in stonework.

Bert Flemer, F & F Nurseries, Holmdel, N. J., and Raymond Korbobo, Rutgers, the State University, New Brunswick, N. J., concluded the session by discussing the attributes of Hedera helix pedata, the crow's-foot ivy. This ivy is vigorous, small leaved, a shallow grower, particularly good for underplanting and is relatively easy to maintain in fall and winter.

MARKETING SURVEYS

[Continued from page 8]

that 20 per cent of all homes lack plantings in the yard, borders and foundation, although 43 per cent were adequately planted.

To the question of whether they felt the need for consumer information on the care and maintenance of trees and shrubs, 52 per cent of the homeowners answered yes, 44 per cent answered no and 4 per cent did not respond.

A major conclusion of the survey, said Dr. Gatty, is that there is a need to educate the consumer about the product.

The second speaker on the Wednesday afternoon program was Joseph Goeke, Opinion Research Corp., Princeton, N. J., whose subject was, "How Does Your Customer See You?"

Survey on Leisure Time

You are lucky, he began, if your customer sees you at all. His company interviewed 6,000 persons to find out what they did with their free time. Seventy-seven per cent watch television; 67 per cent read the daily newspaper; 57 per cent visit or entertain friends, and 53 per cent work in the yard or garden.

Of those who work in the yard or garden, there were equal percentages of men and women, of grade school and college graduates and of managerial and manual workers.

Mr. Goeke said just because a person is in a favored industry does not mean that he will get his share of the consumer's dollar. Characteristics of growth markets are product value or satisfaction, bold packaging, wide distribution, product innovation, mass promotion and market research. Markets have a peculiar way of

UPGRADE YOUR SERVICE WITH THESE *New*
CUSTOMER CARTS
 DESIGNED TO GET *Super Market Results*
 IN TODAY'S NURSERY OR GARDEN CENTER

LARGER SALES

Most folks like to browse around, to pick and choose the things that strike their fancy. You can encourage their natural tendency to buy on impulse, and increase the size of their purchases, by supplying each with an "easy to handle" Customer Cart.

GREATER SALES EFFICIENCY

The use of Customer Carts permits your salesmen to better serve your customers by distributing their efforts where needed. When a customer requires information not supplied by your marking system, he signals for help by ringing a small bell attached to his cart.

SIMPLIFIED MATERIAL HANDLING

This sturdy outdoor cart makes it easy for each customer to keep all of his purchases together and to move them past the checkout counter to his car.



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Another Sales Aid by

GROWERS SIGN SERVICE
 DEPT. C TALLMADGE, OHIO

SHADEMASTER LOCUST (Plant Patent No. 1515)

PRINCETON UPRIGHT THORNLESS HONEY LOCUST



SHADEMASTER HONEY LOCUST
Plant Patent No. 1515

Picture shows a tree six years after planting a 1 to 1 1/4-in. cal. tree. It is now more than 29 ft. high and has a 6-in. cal.

- Shademaster requires no staking.
- Grass grows right up to the trunk.
- Its shade is sufficiently heavy to discourage crab grass.
- The most desirable of all fast-growing trees.

	Unit prices in quantities			
	1 to 9	10 to 49	50 to 249	250 and up
Two years or more, branched				
5 to 6 ft.	\$ 4.50	\$ 3.75	\$3.00	\$2.70
6 to 8 ft.	6.00	5.00	4.00	3.60
8 to 10 ft., 1 to 1 1/4-in. cal.	8.50	7.00	5.50	4.95
9 to 11 ft., 1 1/4 to 1 1/2-in. cal.	11.20	9.50	7.50	6.75
10 to 12 ft., 1 1/2 to 1 3/4-in. cal.	13.50	11.00	9.00	8.10
One-year, whips				
4 to 5 ft.		1.80	1.50	1.35
5 to 6 ft.		2.25	1.80	1.60
6 to 7 ft.		2.75	2.25	2.00
7 to 8 ft.		3.35	2.70	2.45
8 to 9 ft.		4.00	3.20	2.90

PRINCETON NURSERIES

Phone: WA 4-1776 Princeton, N. J.

changing, said Mr. Goeke, and the last person to know it is the maker of a product.

He believes that garden center customers should be given the opportunity to buy "packages" including all items needed for a certain project, such as a spring replanting package or a package of plants for children or of miniature plants for city dwellers. This would be one means of relating nursery products to larger sales.

CRAB APPLE VIRUS

[Continued from page 14]

sensitive to the virus and will not grow normally if propagated on rootstocks infected with the chlorotic leaf spot virus: *Malus hupehensis*, *M. platycarpa*, *M. sieboldi*, Eleyi, Evelyn, Irene, Jay Darling, Purple Lemoine and Purple Wave.

Some sensitivity appears in the following crab apples, but the degree has not yet been determined: *M. floribunda*, *M. prunifolia*, *M. zumi*, *calocarpa*, Red Tip, Tipi and Zapta.

Can Be Genetic Factor

Sensitivity of certain crab apples to the chlorotic leaf spot virus is under genetic control, and the evidence suggests that it is transmitted as a dominant character. Conse-



LINING-OUT STOCK HARDY ORNAMENTALS

CHOICE VARIETIES — FINEST QUALITY

We carry in season a very large selection of the best varieties (the real money-makers) in several grades, all of which are hardy here in northern New Jersey, as well as farther north. Our prices are right, and our quality and service are completely satisfactory. Quantity and pickup discounts are regularly given. Whether you write, phone or visit, we welcome your questions and the opportunity to help you with your lining-out requirements.

JOHN VERMEULEN & SONS, Inc., NESHANIC STATION, N. J.

Growing Top-Quality Hardy Liners Exclusively since 1921

PINE GROVE NURSERY

R. D. No. 3 Clearfield, Pa.

	Per 100	Per 1000
Colorado Blue Spruce		
3-yr., S., 5 to 8 ins.	\$ 4.50	\$ 35.00
(3-2), T., 7 to 10 ins.	10.00	75.00
Concolor Fir		
3-yr., S., 7 to 10 ins.	5.00	40.00
Canadian Hemlock		
2-yr., T., 10 to 14 ins.	16.00	125.00

Many other varieties. Write for complete list.

COLLECTED STOCK

Clump Birch (<i>Betula populifolia</i>)	
6 to 8 ft.	\$4.00
8 to 10 ft.	5.00
10 to 12 ft.	6.50
Red Maple (<i>Acer rubrum</i>)	
1 1/2 to 2-in. cal.	4.50
2 to 2 1/2-in. cal.	6.00
Colorado Spruce, field-grown	
18 to 24 ins.	2.25
24 to 30 ins.	2.75

F.O.B. White Haven

BARRY'S EVERGREEN NURSERY
White Haven, Pa.

For Quality Stock— RICKERT NURSERIES

Successor to Moon's
Established 1767
MORRISVILLE, PA.

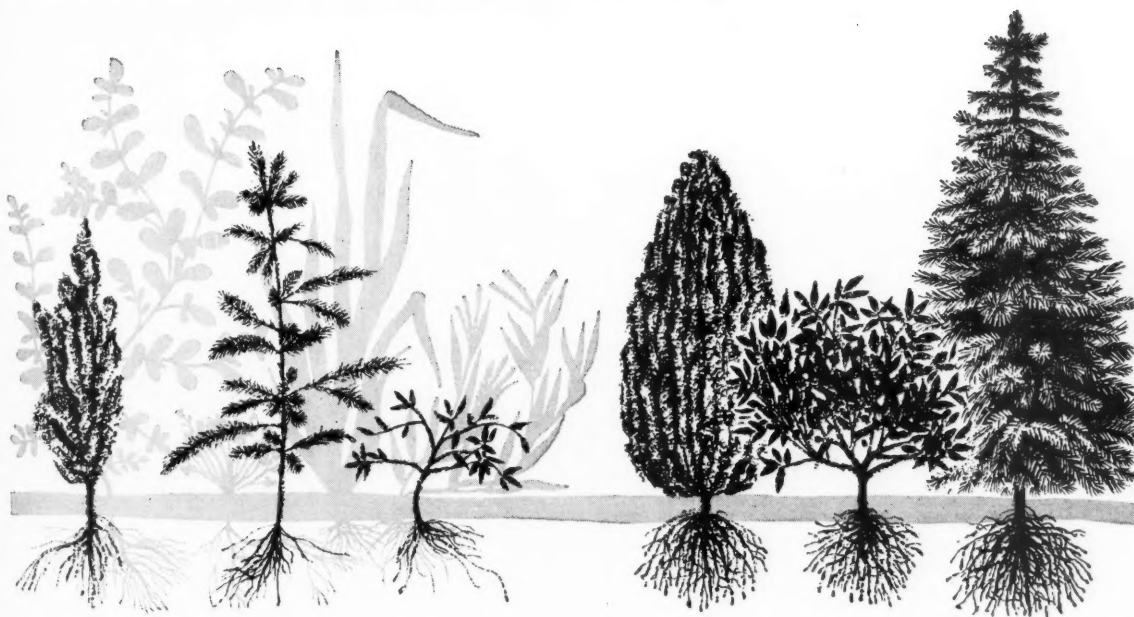
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4 and 5-yr., twice transplanted.

Write for list and prices.

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Cromwell, Conn.

Nurserymen—looking for more profits?



Protect your ornamentals— control annual weeds and grasses with CHLORO IPC

Granular Chloro IPC is an effective dormant herbicide for the control of annual weeds and grasses in ornamentals. Properly used, Chloro IPC stops weed and grass seed germination and kills the growing root tips of weed seedlings.

Prior to Chloro IPC applications, soil is cleanly cultivated and irrigated. The Chloro IPC granules disintegrate on the moist soil and form a layer toxic to many germinating weeds and grasses.

Chloro IPC is not leached away to any extent. It

maintains its effectiveness long past initial application.

Easy handling—Compared to most other commercial and agricultural chemicals, Chloro IPC is relatively safe to use. Only normal safety precautions need be followed.

Granular Chloro IPC is available in concentrations of 5% and 20% CIPC by weight.

Control annual weeds and grasses in ornamentals
—Get a supply of Chloro IPC from your nearest dealer. For more information, simply mail this coupon.

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Gentlemen:

Please send me information on Chloro IPC for control
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WESTERN MAINE Forest Nursery Co.

Growers of hardy, guaranteed-to-live

TRANSPLANTED EVERGREENS

TRANSPLANTS

	Per 1000
Douglas Fir, 4-yr. transplants (2-2), 6 to 12 in.	\$ 70.00
Douglas Fir, 3-yr. transplants (2-1), 3 to 6 in.	65.00
Scotch Pine (Austrian Hill) 3-yr. transplants (2-1), 4 to 10 in.	60.00
Scotch Pine (Spanish), 3-yr. transplants (2-1), 4 to 10 in.	60.00
White Pine, 4-yr. transplants (2-2), 6 to 10 in.	75.00
Colorado Blue Spruce, 5-yr. transplants (2-3), 8 to 15 in.	140.00
Norway Spruce, 5-yr. transplants (2-3), 8 to 15 in.	80.00
Norway Spruce, 4-yr. transplants (2-2), 6 to 12 in.	70.00
White Spruce, 4-yr. transplants (2-2), 5 to 10 in.	70.00

SEEDLINGS (Not Guaranteed)

Douglas Fir, 3-yr. seedlings (3-0), 3 to 6 in.	25.00
Fraser Fir, 3-yr. seedlings (3-0), 3 to 6 in.	30.00
Japanese Black Pine, 3-yr. seedlings (3-0), 5 to 10 in.	30.00
Norway Red Pine, 3-yr. seedlings (3-0), 4 to 8 in.	25.00
Scotch Pine (North German), 3-yr. seedlings (3-0), 8 to 12 in.	20.00
White Pine, 3-yr. seedlings (3-0), 5 to 10 in.	30.00
Colorado Blue Spruce, 3-yr. seedlings (3-0), 5 to 10 in.	40.00
Norway Spruce, 3-yr. seedlings (3-0), 3 to 5 in.	25.00
European Larch, 3-yr. seedlings (3-0), 6 to 10 in.	25.00

TERMS

Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

OUR GUARANTEE

90 PER CENT OF ALL TRANSPLANTS SOLD at regular wholesale prices as quoted in this list are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1961. (Seedlings not guaranteed.)

If they are grown in Maine they will grow anywhere. Several other varieties of transplants available.

Write or phone for complete list of stock.



Harold Eastman

Dept. AN321

WESTERN MAINE Forest Nursery Co.

Fryeburg, Maine



Harry Eastman

Telephone: Webster 5-2165

Heavy — Sheared — Specimens CAROLINA HEMLOCK

Superior Color to 20 Degrees Below Zero

	Each	Per 1000
2 to 2½ ft.	\$3.75	
2½ to 3 ft.	4.50	
3 to 3½ ft.	5.50	
3½ to 4 ft.	6.50	
4 to 4½ ft.	7.75	
4½ to 5 ft.	9.00	

HEMLOCK HOLLOW NURSERY

R. D. No. 3

Phone: WE 5-1009
17 miles north of Pittsburgh.

Wexford, Pa.

Also Available:

Canada Hemlock, to 7 ft.
Concolor Fir, to 5 ft.
Douglas Fir
American Holly, to 7 ft.
Holly, cuttings
Engelmann and
Colorado Spruce
Crab Apples, 3 to 4 ins.

TAXUS

	Each	Each		Each	Each
	Per 100	Per 1000		Per 100	Per 1000
T. wardi			T. hicksi		
12 to 16 ins.	\$2.25	\$2.00	12 to 16 ins.	\$2.25	\$2.00
10 to 12 ins.	1.50		10 to 12 ins.	1.50	
T. hatfieldi			T. henryi (The originator's true strain)		
12 to 16 ins.	2.25	2.00	12 to 16 ins.	2.25	2.00
10 to 12 ins.	1.50		10 to 12 ins.	1.50	
T. browni			T. densiformis		
12 to 16 ins.	2.25	2.00	12 to 16 ins.	2.25	2.00
T. capitata			10 to 12 ins.	1.50	
2 to 3 ft.	4.75				
12 to 16 ins.	1.75				

Your visit to the nursery would be most welcome. New Jersey Turnpike Exit No. 9 to New Brunswick and Easton Ave.

BELL ACRE NURSERIES

P. O. Box 597, Easton Ave. Phone: EL 6-0980 South Bound Brook, N. J.

quently, seedlings of sensitive species may also be sensitive. For example, a propagator should not use seedlings of *Malus sieboldi* as rootstocks for flowering crab apples or apples unless he knows his scion varieties are free from the chlorotic leaf spot virus. Fortunately, the domestic apple seedlings are relatively nonsensitive to the virus and they continue to be the best available source of vigorous rootstocks for virus-sensitive flowering crab apples and for virus-infected apple varieties and flowering crab apples.

Now that it is known that viruses play a major role in many rootstock problems in flowering crab apples, considerable hope exists for being able to solve these problems in the near future. Much research is needed to identify the more important viruses involved and to learn if they spread from diseased to healthy trees in landscape plantings. If the spread is limited to transmission by budding and grafting, the diseases can be controlled by securing virus-free stocks and virus-free scion varieties and using these in all future propagation. If, however, the viruses spread in the field by insects or other vectors, it may be necessary to develop by breeding, flowering crab apple varieties that are not sensitive to the viruses. This would take several years, but appears feasible, since there are several species that are not sensitive that may be used as parents in such an improvement program.

REVIVE WISTARIA TRAIL

Revival of the "Wistaria Trail" along Highway 80 from Marshall, Tex., to Waskom, Tex., a feature virtually lost because of highway construction, is being undertaken as a project of a Camp Fire Girls committee with the Verhalen Nursery Co., Scottsville, Tex., donating many plants and Louis Neumeyer, of the soil conservation service, assisting.

Cameron Verhalen and Mr. Neumeyer will meet with state highway department representatives concerning the planting and will also enlist planting assistance from other groups, according to a newspaper report of the movement.

SOLD recently was the Ninth Street Nursery, Rock Island, Ill., to Leon R. Larson, who is planning to increase the landscaping division. The previous owners, Mr. and Mrs. Robert Judge, had operated the nursery for the past 20 years.

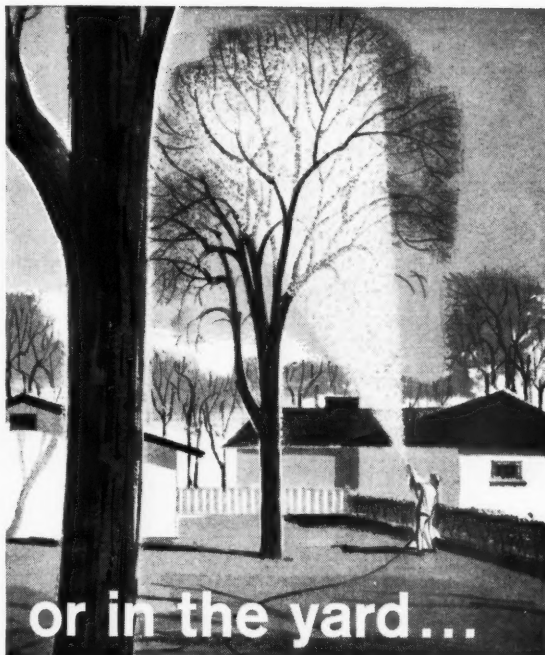
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Choose AMOCO Sprays!

FIGHT DUTCH ELM DISEASE

AMOCO Elm Spray—Proved in *ten* years of wide commercial use. Emulsifiable 25% DDT concentrate containing a horticultural white mineral oil. Controls the insect carriers of Dutch elm disease and elm phloem necrosis.

New! AMOCO Elm Spray-32.4—Specially formulated emulsifiable 32.4% DDT concentrate in carefully selected xylene solvent. Low cost-per-pound of DDT.

CONTROL SCALE

WARNING—HEAVY SCALE BUILD-UP IN THE MIDWEST! Especially serious, in many areas, are Lecanium scales (principally European fruit lecanium) and cottony maple scale. To control these, and other scale insects, use...

AMOCO Superior Dormant Spray Oil—Saves money, because less spray material is needed.

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AMOCO Mosquito Fog Spray—Oil dilutable concentrate for use in thermal fog machines. Controls flies, mosquitoes, gnats and other flying insects. Contains both DDT and Malathion for quick, positive control. Special coke inhibitor to prevent carbon build-up. Special masking agent for more pleasant scent.

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For products, information and American Oil help on your specific pest control problem contact your local American Oil Office, your spray materials dealer, or write direct to:



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910 S. Michigan Ave., Chicago 80, Illinois

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

PLANTS AS A HOBBY

Recent tendencies in the nursery business have been toward streamlining operations. In garden centers, the self-service idea is encouraged; in mail-order and wholesale businesses, the desire is to handle large quantities with a minimum of effort. These tendencies have produced a considerable reduction in the number of plant varieties and species which are offered for sale.

While this may work for the convenience of the nurseries, considering the high cost of labor and the complications of a large establishment, it certainly makes things difficult for the gardener whose interest in plants is a hobby only.

Hobby gardeners take many routes. Some like to grow exotic plants, others may specialize in strange or in common species or types, while still others are arborum-minded and like to try everything.

After World War II nurserymen had to catch up on their inventories and then expand their businesses in order to satisfy the tremendous demands of building. Then came the adjustment to new methods of merchandising. During this period, there was a considerable decline in the growing of the difficult, the unusual and plants for which there is only a modest demand. Now there are signs that this is changing again.

It may well be that growing unusual plants a hobby gardener wants would be a means by which the small retail nursery can become more important to the industry, because it is better able to propagate and grow the kind of plants that cannot be handled in the roadside stand, the grocery store or even the garden center.

When hobby gardeners look for unusual plants, or for plants missing in their collections, they do not look for bargains but will pay for what they want. These plantsmen not only are looking for the unusual in kind but also they are looking for the unusual in form. The retail nurseryman can afford to train plants for certain uses and purposes which a wholesaler cannot do, and this effort can be charged for accordingly.

In a previous article I commented

that the period around the turn of the century saw a keen interest in stove plants, tender and subtropical plants of interest for interior culture or outdoor summer use. With the development of small greenhouses, particularly of the plastic type, there is now more opportunity for growing this sort of thing than there was.

There is already one development to be seen in this direction—a considerable interest in the sale of small, potted, foliage plants grown in the tropics and sent north for volume sales in the stores. There is no reason the retail nurseryman with modest facilities can not grow these same plants in smaller quantities but in

larger sizes than those sold in stores.

A worthwhile market for such plants in commercial buildings such as hotels, motels, arcades in shopping centers, lobbies, etc., in addition to homes, is developing.

The field of the type of plants that can be grown for the hobby gardener is tremendous. Plants that have been grown extensively recently are hollies and camellias; flowering plants such as crab apples, lilacs and roses, and perennials such as chrysanthemums and lilies. The possibilities are, of course, endless.

In addition, forms like espaliers and bonsai are good possibilities. In fact, bonsai plants seem to be enjoying a boom at the present time. About 25 to 30 years ago, rock gardens and pools were a fad, and suitable plants, particularly for the former, were raised in wide variety; perhaps another phase of the perennial clan will see a wider popularity.

The handling of seeds of rare plants is a more limited form of fur-

JOS. A. HREN NURSERIES

BLACK PINE

4 to 5-yr., heavy liners of our own compact strain.
8 to 10 ins., T., \$35.00 per 100
10 to 12 ins., T., \$50.00 per 100

LANDSCAPE-SIZE MATERIALS — Catalog

East Hampton, L. I., N. Y.

Phone: EA 4-0640

TAXUS SEBIAN INTERMEDIA

This is an origination of the late Mike Sebian's nursery, Painesville, Ohio. It has proved hardy and has a fast rate of growth. We feel this variety is one of the best for the mid-western states.

	Per 100	Per 1000
2-yr., T.	30c	27½c
3-yr., T.	40c	37½c

Write for price of 5000 and 10,000 quantity.

Samples sent upon receipt of postage.

VERKADE'S NURSERIES

P. O. Box 336

New London, Conn.

CANADIAN HEMLOCK BALSAM FIR

	Per 100	Per 1000
2 to 4 ins., S.	\$ 2.00	\$ 10.00
3 to 6 ins., S.	3.00	17.00
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.00	100.00

Well-rooted, carefully collected seedlings. Puddled and packed in sphagnum moss. Cash with order.
Trade list on request

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1167 Preackness Ave.

Wayne, N. J.

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PRE-PLANTED

. . . from Five M Nurseries
The **NEWEST** Item in the
Nursery Business

PRE-PLANTED Rose Bushes



There are a dozen fast-selling FIVE M PRE-PLANTED rose bushes in each attractive self-contained display case. Sets up easily . . . and sells itself. Available in the best-known patented and standard varieties.

They're already PLANTED in a perfectly balanced organic mix for good growth! They're already correctly PRUNED and trimmed. They're FIVE M PRE-PLANTED roses and they're ready to grow. New, easy-open package has perforated tabs at top and bottom . . . no mess or bother to plant.

Write, wire or phone today for complete Pre-Planted information.

**FIVE M NURSERIES
INC.**

Lindale, Texas



Just pull the perforated strip at the top . . .

. . . and at the bottom and PLANT. Everything is in the package . . . no peat, no fertilizer necessary.

MALUS ROOT GRAFTS

FLOWERING CRAB APPLE

All shipments will be made between March 1 and April 1.
Each per 10, 15c; each per 100, 12c; each per 1000, 11c
300 at 1000 rate. Minimum 50 each.

Variety	Color	Type	Foliage	Fruit
Eleyi	purple-red	single	purple-red	purple-red
Atrosanguinea	red and white	single	green	red
Floribunda	pink and white	single	green	yellow-red
Theifera	pink	single	green	yellow-red
Hopa	purple-red	single	purple-red	orange-red
Dolgo	white	single	green	brown-red
Sargentii	white	single	green	red
Scheideckeri	pink	double	green	yellow-orange
Micromalus	pink	single	green	green-yellow
Arnoldiana	rose and white	single	green	yellow
Parkmani	pink	double	green	red
Floribunda purpurea	crimson	single	red	purple
Zumi Calocarpa	pink and white	single	green	red

5-IN. SCIONS FROM ABOVE, \$20.00 PER 1000

PRUNUS ROOT GRAFTS

Flowering Japanese Cherry

Each per 10, 20c; each per 100, 17c; each per 1000, 16c.
300 at 1000 rate. Minimum 50 each.

Amanogawa, semidouble, pink,
narrow grower
Mt. Fuji Shirotae, double, white

Kwanzan, double, deep pink
Yoshino Yedoensis, single, white to pink
Shidare-Higan, double, pink

TERMS AND CONDITIONS OF SALE: Orders must be accompanied by a deposit of 25%, packing at cost. Packing is free when cash is sent with order. Pickup orders earn 5% discount.

Price list sent on request.

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ROSES

From the finest growing areas:

CALIFORNIA — ARIZONA

All the Leading Patented and Standard Varieties
and A.A.R.S. Winners

Price Schedule of Standard Varieties

GRADE	Each 10 to 240	Each 250 to 990	Each 1000 to 2490	Each 2500 to 5000	Each Over 5000
No. 1	\$0.60	\$0.58	\$0.56	\$0.55	\$0.54
No. 1½ .....	.50	.48	.46	.45	.44

F.O.B. Moorestown, N. J.

Free individual labels—5x7-in. colored pictures, 5c each.

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55 E. Oak Ave.

Moorestown (Burlington Co.), N. J.

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A complete line of POTTED nursery stock:

Flowering Trees—Shrubs—Fruit Trees

also B&B Evergreens

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Rhododendron • Kalmia • Azalea

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CALLICOON, N. Y.

LINING-OUT STOCK

Taxus capitata, 2-yr., S.
Taxus, transplants, 2 to 4 yrs.
Boston Ivy, 1-yr., S.
Red Barberry, 2-yr., S.

Write for list.

PETER BROUWER'S NURSERIES

24 Lester St.

New London, Conn.

nishing material to the hobby gardener, but the suppliers should be appreciated, for they can hardly get rich at it.

Just because certain conifers, such as arborvitae, chamaecyparis and junipers were overpropagated, now many forms, such as the pines, firs, spruce and cedrus, as well as the exotic types cunninghamia, sequoia, sciadopitys, and cephalotaxus, are much underpropagated. Both free-growing and dwarf forms exist in many attractive types and are excellent subjects for the retail nurseryman to grow in his fields.

A surprising number of persons are arboretum minded, particularly about shade trees, and the present tendency to grow a limited list suitable for street and lawn is to be deplored. Customers wish a much greater variety than is generally grown, and often the average homeowner, as well as the hobby gardener, wishes a conversation piece.

LONG ISLAND SHOW

[Continued from page 11]

ranging, plant identification and other aspects of ornamental horticulture.

Also as a carry-over practice from the last two years there were no medals or other awards presented to the exhibitors. Instead, each exhibiting nurseryman received a plaque marking his participation in the 1961 garden show. There is, however, one award that is not announced until the show is over, and that is a "Best-in-Show" award, determined by popular ballot of the public attending the show. A certificate and satisfaction that public opinion voted the exhibit best are the only rewards received by the fortunate nurseryman.

Homestead Gardens, Rockville Centre, designed a peaceful woodland garden, with a waterfall, stream and pool. In addition to the commoner woodland plants, 20 varieties of heaths and heathers were used by the designer, Richard Soper.

Alley Pond Nursery, Bayside, had a natural, shady garden, featuring a large gazebo and a 7-foot waterfall in a setting of specimen plants that included a double-flowering white peach and a 50-year-old Japanese maple. The garden was designed by August N. Heimerich.

S. Scherer & Sons, Northport, showed an aquatic garden that featured a 3-tiered waterfall, stream and pool. In addition to the aquatic feature, Walton Scherer used plants with unusual forms.

Rocco Fischetti Nursery, West



Greenhouse manager, FRED J. WERNER, examines clean soil as MR. STUBER looks on with approval. Photo at left shows part of 6,000 square foot area treated with VAPAM more than six weeks previously.

"VAPAM® cleans soil better than anything else"

Says: FRED STUBER, Yonkers, N. Y., nurseryman

Stuber's Flower Shop and nursery has catered to the public in southern Westchester County, N. Y., since 1888. Stuber's grows most of its own plants and flowers, and retails all it grows. Third generation Fred Stuber, now president of the firm, has this to say about VAPAM soil fumigant:

"We've used VAPAM for three years. We find it's easy to apply and economical to use . . . much cheaper than hand weeding. It has just about eliminated our weed problem. We even treat walkways. VAPAM gives us better control than anything we have ever used."

More and more progressive, profit-wise nurserymen like Fred Stuber are learning

that it pays to clean soil with VAPAM. Just one pre-plant application knocks out weeds, nematodes and most other soil pests.

VAPAM is a liquid fumigant that doesn't require special application equipment. It does not leave harmful residues in the soil after the fumigant disappears. And here's the pay-off: (1) VAPAM drastically cuts expenses for weeding and cultivating, (2) it gives plants a chance to grow faster and better in weed-free, disease-free soil.

Clean *your* soil with VAPAM. See your local supplier, or write for further information to Stauffer Chemical Company, 380 Madison Avenue, New York 17, N. Y.

© Stauffer's Reg. T.M. for a soil fumigant.



PINUS THUNBERGI LINERS AND FINISHED STOCK BLACK PINE

	Per 1000
1-yr., S., 3 to 5 ins.	\$ 30.00
2-yr., S., 6 to 10 ins.	50.00
3-yr., S., 15 to 20 ins.	75.00
4-yr., S., 18 to 24 ins.	150.00
3-yr., T., 12 to 18 ins.	250.00
4-yr., T., 18 to 20 ins.	500.00
5-yr., T., 24 to 30 ins.	1000.00
	Each
2 to 3 ft., sheared, B&B	\$ 4.00
3 to 4 ft., sheared, B&B	7.50
4 to 5 ft., sheared, B&B	10.00
5 to 6 ft., sheared, B&B	12.50
6 to 8 ft., sheared, B&B	20.00

Our Black Pine are grown from a Northern Japan
Compact strain and are very dark green in color.

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Jericho Turnpike, Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

Long Island's Largest Nurseries

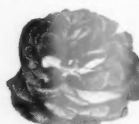
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1961
"Best Sellers"
These 3 New
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Garden Roses

INVITATION... *Glorious beauty, and with fragrance, too*

A rose like Invitation comes along but rarely. And when it does, it is an Invitation... an invitation for all to see, to admire, and to own. Invitation has large, robust blooms (up to 5 inches across) of rich, salmon-orange. The plant itself, which is beautifully compact and bushy, becomes a perfect pedestal for a perfect rose. Add to this a lingering, spicy kind of fragrance and you have a real best seller. H. T. (Swim.) Pl. Pat. App. For.



SUSPENSE

Here's a rose so new, so magnificent that it's destined to become a favorite. Giant blooms (up to 6 inches across) of rich red plush underlaid with soft, chamois-skin textured yellow can only be admired in astonishment. H. T. (Meiland.) Pl. Pat. 1944.

Also new from Star Roses: Fascinating—Bi-Color H.T.; Vassar Centennial—Peach H.T.; and Polka—Double Pink Floribunda. Send direct to Conard-Pyle for 27" x 30" wall poster showing 16 Roses of Distinction in "Living Color."



SIMONE

New, Different, Intriguing... that's Simone, the newest and best yet of the lavender roses. Tremendous 6-inch blooms of cool, clear orchid-like color make Simone a "must" rose for every rose lover. H. T. (Mallerin.) Pl. Pat. 1847.

ORDER FROM YOUR GROWER or write to:
GROWERS OF THE FAMOUS STAR ROSES



The Conard-Pyle Co.

WEST GROVE 220, PA.

Hempstead, sponsored a contemporary suburban garden. Because of a sudden, severe illness, Mr. Fischetti was not able to complete his exhibit. Joe Clark, Lewis & Valentine Nurseries, Inc., designed and supervised the construction, with help from other members of L. I. N. A. and Farmingdale students.

John P. Kean Nurseries, Greenlawn, designed a contemporary Japanese garden. A teahouse overlooking a small, rock-rimmed pool was the feature of the garden, which included dwarf Japanese maple, dwarf junipers and steppingstones set in tanbark.

William Kroemer & Sons, Inc., Hicksville, planted a vegetable garden and proved that it can be ornamental if properly arranged and maintained.

Robinson Nursery, Inc., Bethpage, constructed a garden shelter of California redwood, amid many flowering shrubs, flowers and bulbs.

For Outdoor Living

Goldberg & Rodler, Hempstead, featured a combined outdoor living area for adults with a play area for children. A redwood deck, shaded by yellow canvas, was the feature of this contemporary exhibit. Unusual treelike Ghent azaleas and a large red-veined enkianthus attracted attention among the other flowering plants.

Bulk's Nursery, Babylon, suggested a sun tan garden. A free-form terrace, constructed with precast concrete squares, provided an ideal location for obtaining a tan in early spring. Among the many colorful plants were a Sunburst locust and a blue Atlas cedar.

Atlantic Avenue Nursery, Inc., Freeport, planned a dooryard garden, featuring brick retaining walls and a flagstone walk leading to a door flanked by espaliered fire thorns.

Landscape Associates - Dalsimer Associates, Inc., Brookville, showed a formal garden for the budget minded. Railroad tie retaining walls dominated the formality of this multilevel small terrace garden. Colorful azaleas, rhododendrons and flowering trees complemented the simplicity of the design.

Hicks Nurseries, Westbury, designed an alcove garden on two levels that offered seclusion with skillfully arranged plants. A stucco wall containing a 3-tiered wall fountain was the main feature of the upper level, whereas Chinese red antique bridge railings enclosed the lower level.

Anton Hren Nurseries, Huntington Station, made contemporary for-

"SLIP-ON"

PLASTIC LABELS

NEWEST AND MOST PRACTICAL OF ALL PLANT LABELS!

SO NEW!
SO PRACTICAL!
16 times stronger in sub-zero temperatures

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Patented locking device assures you a permanent, easily attached, adjustable label. Minimizes girdling the canes of either soft or hard wood plants. Guards against loss of labels. Absolutely waterproof. Will not wilt in hot weather.

Plain or varieties imprinted permanently

Add \$2.00 to imprinted prices if imprinting is desired on both sides. Trade-marks billed at cost. Photos or black-and-white drawings must accompany trade-mark orders. Parcel-post shipment up to 20 lbs. Over 20 lbs., least expensive way possible—unless otherwise specified. All shipments F.O.B. DAYTONA BEACH, FLA.

Available in 6 fadeproof colors . . . RED, GREEN, ORANGE, YELLOW, BLUE, WHITE

No.	Size	Per 1000	Imprinted Per 1000	Weight
No. 25	1 1/2 x 5 ins.			
1000 to 4000		\$5.50	\$7.00	
5000 to 9000		4.75	6.25	1 1/4 LBS.
10,000 to 49,000		4.00	5.50	
50,000 to 99,000		3.25	4.75	PER 1000
100,000 or more		2.50	4.00	
No. 87 or 87C	3/4 x 7 ins.			
1000 to 4000		7.50	9.00	
5000 to 9000		6.50	8.00	2 1/4 LBS.
10,000 to 49,000		5.50	7.00	
50,000 to 99,000		4.75	6.25	PER 1000
100,000 or more		4.00	5.50	
No. 47 or 47C	3/4 x 7 ins.			
1000 to 4000		8.50	10.00	
5000 to 9000		7.50	9.75	3 LBS.
10,000 to 49,000		7.00	7.75	
50,000 to 99,000		6.25	7.00	PER 1000
100,000 or more		5.50	6.25	

87C and 47C in the above price list indicates "y" notch.

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YOUR NAME (print)

CITY.....ZONE.....STATE.....

STREET NO.....R.F.D.....BOX.....

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PLASTIC "SLIP-ON" LABELS (if different from post office)

SIZE	QUANTITY	IMPRINT NAME & ADDRESS	IMPRINT VARIETIES	IMPRINT TRADE-MARK	PRICE
NO. 25					
NO. 87					
NO. 87C					
NO. 47					
NO. 47C					

IMPRINT MY "SLIP-ON" LABELS AS FOLLOWS:

*A VARIETY LIST IS ENCLOSED.....(yes or no). Made in U. S. A.



"SLIP-ON" E-Z LABEL

Fast application. Heavy duty. Double strength. Waterproof. Fadeproof. Red, green, yellow, orange, blue, white.

REMOVABLE PLASTIC CARD

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Single Red HIBISCUS 98¢

GARDEN MARKERS All aluminum tube stake 3 ft. long. 5/4x7-in. plastic insert card plus 2x7-in. interchangeable plastic pricing card. \$1.04 each.



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For Street or Park Planting

From 7 to 12 ft. high, 2 to 3-in. cal., branching at 4 ft., 5 ft. and 6 ft. Perfect trees, well headed, appropriate for street or park planting.

PINK DOGWOOD

4 to 8 ft., heavy plants

OTHER SPECIALTIES INCLUDE

ILEX PIERIS HEMLOCK ALBIZZIA
PRUNUS PINUS BETULA TAXUS

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IMPERIAL NURSERIES OF LONG ISLAND

Miller Place Rd. off Route 25A

Phone: Port Jefferson 8-0955

Miller Place, L. I., N. Y.

(4 miles past traffic circle—turn right at blinker.)

mality the theme of the garden designed by Lou Aulletta. Specimen hreni yews topped a flagstone wall that surrounded a flagstone patio that was simple and spacious.

Landscape Horizons, Smithtown, presented a small, intimate patio that had an Oriental flavor to its design.

Maura Brothers & Co., Manhasset, showed garden color in May. Designer John V. Bergamo constructed this garden around two large weeping cherry trees and a free-form pool set in black stone chips. A rock garden contained soft colors that helped balance the whole picture.

Bensch's Florist & Nursery, Huntington, had a garden corner presented in an elegant manner by William Bensch, showing wrought-iron gates at the end of a garden walk paved with marble chips. Burford holly and cherry laurel were used to advantage among many other well-groomed plants.

Educational Plantings

The nursery management students of the department of ornamental horticulture, State University Agricultural and Technical Institute, presented an education exhibit indicating the production of ornamental plants and their ultimate use in a garden. The students, under the supervision of Prof. Alex Takacs, erected a greenhouse to exhibit propagation methods. Additional stages of plant production were shown with plants under lath through 8 to 10-year-old field-grown material.

State University Agricultural and Technical Institute, Farmingdale, planting fields campus, featured a natural lily garden, using Jan de Graaff lilies, and a terrace, constructed under the supervision of

TAXUS DENSIFORMIS (True)

This variety has proved to be the most popular of all the spreading Taxus.

	Each Per 100	Each Per 1000
2-yr., T., strong	\$0.45	\$0.40
3-yr., T., strong .....	.60	.50
4-yr., TT., FR, strong .....	.75	.60

Special price on large quantities. Also other varieties of Taxus available. Write for price list.

C. HOOGENDOORN, Nurseryman

408 Turner Rd.

"Where Quality Excels"

Newport, R. I.

SPRING SPECIAL

8000 choice, 30 to 36-in.

PYRAMIDAL ARBORVITAE

Priced in the field at only 50c each.

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Plant Quality Nursery Stock

Seedlings and Transplants

- Pines • Firs • Spruce • Hemlock
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Quality Nursery Stock For More Than 35 Years

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QUALITY LINERS

	Per 100
Mugho Pine, dwarf type	
4-yr., 3 to 6 ins., T.	\$15.00
Douglas Fir, blue	
5 to 10 ins., T.	15.00
Colorado Blue Spruce	
5 to 10 ins., T.	17.50
Canadian Hemlock	
4-yr., 5 to 12 ins., T.	20.00

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We have the following stock still unsold. All stock is first class in every respect. Ready for shipping. Mail your order today before it is all sold. Prices quoted F.O.B. McMinnville, Tenn. (5% discount when cash accompanies the order and free boxing and packing.)

FLOWERING TREES

	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
Sunburst Locust			Eieyi Pink-Flowering Crab Apple			Mimosa Silk Tree		
250 5 to 6 ft., whips..	\$30.00	\$275.00	500 2 to 3 ft., whips..	\$ 4.00	\$ 30.00	1000 3 to 4 ft., whips..	\$ 2.50	\$ 20.00
250 6 to 8 ft., whips..	35.00	325.00	500 3 to 4 ft., whips..	4.50	35.00	1000 4 to 5 ft., whips..	4.00	35.00
Rainbow Flowering Crab Apple			500 4 to 5 ft., br....	10.00	75.00	1000 5 to 6 ft., whips..	6.00	50.00
(5-N-1)			500 5 to 6 ft., br....	12.50	100.00			
250 3 to 4 ft.....	12.50	115.00	Almey Flowering Red Crab Apple			Golden-Rain Tree (Koelreuteria)		
250 4 to 5 ft.....	15.00	125.00	250 2 to 3 ft., br....	7.50	60.00	250 3 to 4 ft., br....	12.50	100.00
Kwanzan Flowering Cherry			250 3 to 4 ft., br....	10.00	80.00	250 4 to 5 ft., br....	17.50	150.00
100 3 to 4 ft.....	25.00	225.00	250 4 to 5 ft., br....	12.50	100.00	250 5 to 6 ft., br....	22.50	200.00
100 4 to 5 ft.....	30.00	275.00	Dolgo White-Flowering Crab Apple					
Weeping Flowering Cherry,			250 3 to 4 ft., br....	7.50	65.00	Red-Flowering Peach		
No. 1 heads			250 4 to 5 ft., br....	10.00	75.00	1000 2 to 3 ft., br....	3.50	30.00
100 5 to 6 ft.....	60.00	500.00	Pink-Flowering Dogwood			1000 3 to 4 ft., br....	4.00	35.00
Hopa Pink-Flowering Crab Apple			1000 12 to 18 ins., br..	6.00	55.00	500 4 to 5 ft., br....	5.00	45.00
500 2 to 3 ft., whips..	4.00	30.00	1000 18 to 24 ins., br..	8.00	70.00	300 5 to 6 ft., br....	6.50	60.00
500 3 to 4 ft., whips..	4.50	35.00	1000 2 to 3 ft., br....	10.00	90.00			
500 4 to 5 ft., br....	10.00	75.00	1000 3 to 4 ft., br....	17.50	150.00	Redbud		
500 5 to 6 ft., br....	12.50	100.00	White-Flowering Dogwood			500 4 to 5 ft., br....	6.00	50.00
			4000 2 to 3 ft., br....	4.50	35.00	500 5 to 6 ft., br....	8.50	75.00
			3000 3 to 4 ft., br....	7.50	60.00	500 6 to 8 ft., br....	12.50	100.00
			1000 4 to 5 ft., br....	12.50	100.00			

HARDY FLOWERING SHRUBS — Well-Branching

	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
Almond, Double Pink-Flowering			Hydrangea P. G.			Rhus cotinoides, (Purple Fringe)		
1000 12 to 18 ins., tr....	\$3.00	\$25.00	2000 12 to 18 ins., br..	\$2.00	\$15.00	1000 18 to 24 ins., br..	\$4.00	\$35.00
2000 18 to 24 ins., tr....	3.50	30.00	1000 18 to 24 ins., br..	3.00	20.00	1000 2 to 3 ft., br....	5.00	45.00
2000 2 to 3 ft., tr....	5.00	40.00	1000 2 to 3 ft., br....	4.00	25.00			
Forsythia spectabilis			Lagerstroemia (Red Grape Myrtle)			Spiraea vanhouttei		
2000 12 to 18 ins., br..	1.50	10.00	1000 18 to 24 ins., br..	4.00	35.00	1000 18 to 24 ins., br..	2.00	17.50
1000 18 to 24 ins., br..	2.50	20.00	1000 2 to 3 ft., br....	4.50	40.00	1000 2 to 3 ft., br....	3.00	25.00
1000 2 to 3 ft., br....	3.00	25.00	500 3 to 4 ft., br....	5.00	45.00			
Cydonia japonica, upright red			French Lilac			Weigela, Variegated nana		
1000 12 to 18 ins., br..	3.50	22.50	500 Red, 12 to 18 ins., br..	4.00	35.00	2000 12 to 18 ins., br..	2.50	20.00
1000 18 to 24 ins., br..	4.00	30.00	500 Purple, 12 to 18 ins., br..	4.00	35.00	1000 18 to 24 ins., br..	3.00	25.00
Deutzia (Pride of Rochester)			500 White, 12 to 18 ins., br..	4.00	35.00	1000 2 to 3 ft., br....	3.50	30.00
1000 12 to 18 ins., br..	1.00	7.50	500 Blue, 12 to 18 ins., br..	4.00	35.00	Weigela Eva Rathke, red		
1000 18 to 24 ins., br..	1.50	10.00				2000 12 to 18 ins., br..	2.50	20.00
1000 2 to 3 ft., br....	2.00	15.00				1500 18 to 24 ins., br..	3.50	30.00
						1000 2 to 3 ft., br....	4.50	40.00

SHADE TREES — Well-Branching

	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
Acer, Crimson King Maple			Acer, Silver Maple			Platanus (American Sycamore)		
(Plant Patent No. 735)			4 to 5 ft.....	\$ 3.50	\$ 30.00	2000 5 to 6 ft.....	\$ 7.50	\$ 60.00
2 to 3 ft., whips.....	\$14.50	\$140.00	5 to 6 ft.....	6.00	50.00	2000 6 to 8 ft.....	10.00	75.00
3 to 4 ft., whips.....	18.50	175.00	6 to 8 ft.....	8.00	75.00	1000 8 to 10 ft.....	12.50	100.00
4 to 5 ft., whips.....	22.50	200.00	8 to 10 ft.....	12.00	100.00			
5 to 6 ft.....	27.50	250.00	10 to 12 ft.....	15.00	125.00	Quercus, Pin Oak		
Acer, Norway Maple, br.			Acer, Sugar Maple			1000 4 to 5 ft.....	11.00	100.00
5 to 6 ft.....	15.00	125.00	4 to 5 ft.....	15.00	100.00	1000 5 to 6 ft.....	17.50	150.00
6 to 8 ft.....	20.00	175.00	5 to 6 ft.....	17.50	150.00	500 6 to 8 ft.....	25.00	200.00
8 to 10 ft.....	25.00	225.00	6 to 8 ft.....	22.50	200.00			
10 to 12 ft.....	30.00	275.00	Liriodendron, (Tulip Poplar)			Chinese Elm (Ulmus)		
			1000 5 to 6 ft.....	7.50	65.00	1500 5 to 6 ft.....	7.00	65.00
			100 6 to 8 ft.....	10.00	85.00	1500 6 to 8 ft.....	10.00	75.00
			100 8 to 10 ft.....	15.00	125.00			
			100 10 to 12 ft.....	22.50	200.00			

BOYD NURSERY CO., INC. McMinnville, Tenn.

PIERIS JAPONICA (Andromeda)

The popularity of this plant is ever increasing, creating a demand that only few nurseries can supply. The plant sells on sight, and its extensive use at flower shows increases the desire of plant lovers for it. It transplants easily, will grow in sun or shade and is attractive at all seasons.

Starting just with its lovely Lily-of-the-Valley-like flowers, often in bloom with icicles on them, it sometimes remains in bloom for a month. The new red foliage appears, which turns light then dark green. The prominent racemes of light green flower buds form in the fall and are attractive all through the winter, useful in flower arrangements, and can be readily forced.

The plants often make three growths a year, so that you soon have a beautiful salable Pieris. Dug with small balls of earth surrounding them, they are incomparable for an evergreen planting. Our grading is very liberal.

Per 100

4 to 6 ins., T. \$15.00
6 to 8 ins., TT. 20.00

ILEX BULLATA

6 to 8 ins., 2-yr., T. . 15.00
8 to 10 ins., T. 20.00

Send for List of Unusual Plants

ALANWOLD NURSERY
Neshaminy, Bucks Co., Pa.

Profs. William Bowden and Gordon Jones.

Nassau county department of parks showed a woodland retreat. Spencer Prentice supervised the construction of a garden that contained a log cabin, natural pool and many varieties of Gable azaleas.

American Rhododendron Society, New York chapter, and the Holly Society of America joined forces to present an educational exhibit of many unusual varieties of holly and rhododendrons.

The Bayard Cutting Arboretum, Oakdale, exhibited an excellent collection of coniferous plant twigs with botanic and common names attached.

KALAMAZOO MEETING

[Concluded from page 18]

dollar spot, mildew, slime mold and snow mold.

In his summary, Dr. Klomparens gave four important steps for disease control: Identify the disease, eradicate it by the proper control measures, protect the grass against further invasion and use proper cultural methods.

Jack Drew, Lansing, Mich., a landscape architect, gave insights into some of the problems facing the industry today. He stated that many times large landscape jobs include such unrelated items as walls, walks, asphalt drives and parking areas. Although, he continued, people are becoming increasingly aware of the aesthetic value of beautifully landscaped public buildings, many times the major part of the funds is spent for the site and the building.

For home sites, Mr. Drew maintained, one should tailor the landscape plan to meet the owner's needs as well as to fit the site. In conclusion, the speaker outlined the main steps in making a landscape plan, programing the work and supervising.

After a coffee break, the meeting was continued with an audience participation panel discussion on wholesale and retail aspects of the trade. Panel members included John Zelenka, Zelenka Evergreen Nursery, Grand Haven; Kenneth Twiss and Kenneth C. Runciman, Chelsea, with Ernest Durrant, Durrant Nurseries, Grand Rapids, as moderator.

At the evening banquet, Ed Scanlon, Olmsted Falls, O., was the featured speaker. Besides showing his fine collection of colored slides taken on a round-the-world trip, Mr. Scanlon also spoke on the use of the proper tree in the proper place.

TAXUS LINERS

7-yr.-old, strong, heavy plants, XXX, \$85.00 per 100.

T. browni, 18 to 24 ins.
T. henryi, 18 to 24 ins.
T. hatfieldi, 18 to 24 ins.
T. capitata, 16 to 20 ins.
(Japanese Seed)

Free packing. Cash with order, please.

BROOKFIELD GARDENS
U. S. Rt. 46
Delaware, N. J.

Brookfield Farms

Growers of Quality
Finished Landscape Material

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ready for immediate resale
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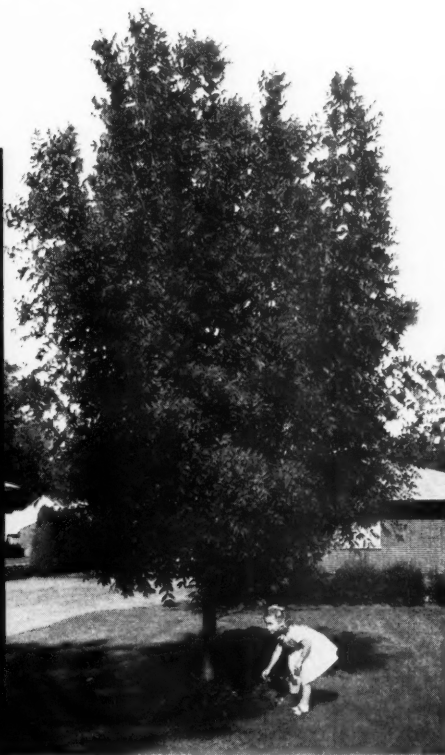
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ROCKY HILL, CONN.

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THE distinctive beauty and unique feature of these two fast growing shade trees from the Moraine family of fine plants **SELL THEMSELVES**. When home owners or home builders see these two beauties... Moraine locust or Moraine ash... it's love at first sight. They're real profit makers! **Order your spring supply now by mail or call collect.**

We would like you to have our catalog on all fine Siebenthaler nursery stock from liners to finished landscape plants.

Be sure of satisfied customers,
handle only the best
nursery stock.

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Moraine® Locust—the only Honey Locust Free of seed pods and thorns

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Siebenthaler

COMPANY 3001 CATALPA DRIVE—DAYTON 5, OHIO CR 4-1154

Recent Experiments in The Control of Borers

Reported by Barry Benjamin

The afternoon portion of the arborists' program presented during the recent Ohio short course at Columbus, as reported in the February 15 issue of the American Nurseryman, was devoted to questions of shade tree diseases and insect troubles. One of the features of the session was a report on "Borer Control Experiments," delivered by Dr. Ralph Neiswander, department of zoology and entomology, Ohio agricultural experiment station, Wooster.

He noted that a relatively large number of wood-boring insect larvae attack shade trees and shrubs in Ohio. Injury most commonly occurs on newly transplanted or weak trees. Maple, oak, elm, poplar, linden, dogwood and many other trees are subject to attack by the common flatheaded apple-tree borer from the time of transplanting until the tree becomes established. Trees that are weakened by disease or drought are also susceptible to infestation until their vigor is restored.

The bronze birch borer attacks the paper birch, and the tree is often killed by the pest. Another group of borers attacks vigorous trees. Included in this group are the peach-tree borer, rhododendron borer, lilac borer and dogwood borer.

Borers were difficult to control until after World War II, when more potent and persistent insecticides became available. Before that time, control measures consisted of various methods of killing the borers after they had become established and the wrapping of tree trunks with heavy paper or burlap to prevent or reduce borer injury. The latter method was practical only on newly transplanted trees.

Controlling Peach-Tree Borer

Soon after DDT became available, it was found to be effective in preventing damage caused by the peach-tree borer. Control consists of maintaining a deposit of DDT on the tree trunks during the period in which eggs are being deposited. Such deposit can be maintained by spraying the trunks thoroughly three times at 20-day intervals, using 4 pounds of DDT, 50 per cent wettable powder, in 100 gallons of water. The first spray should be applied

about July 1 in southern Ohio and July 10 in northern Ohio.

The rhododendron borer is related to the peach-tree borer; it is smaller. The moths deposit eggs on the bark of larger stems primarily during June. In 1953 and 1954, tests were conducted in a planting of forty rhododendrons on the campus of the experimental station at Wooster, O. The results of this work indicate that DDT, one gallon of 25 per cent emulsion to 100 gallons of water, sprayed twice, on May 23 and June 20, or dieldrin, two gallons of the 18.6 per cent emulsion to 100 gallons of water, applied as a single spray on

May 25, would be adequate for control of rhododendron borer.

Apple-Tree Borer

The flatheaded apple-tree borer causes the most trouble in ornamental plantings and nurseries, primarily because it attacks such a wide variety of plants.

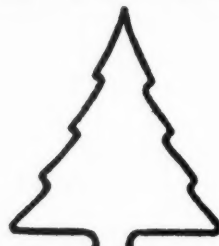
The beetles begin emerging during the latter part of May, and emergence continues until midsummer. Eggs are laid primarily during June and July. Tests for control of this pest were begun in 1955. That year, sprays were applied to nursery trees and newly transplanted shade trees. In all tests conducted since 1956, apple wood or boles two to three inches in diameter and 30 inches long have been used in controlled experiments. The tests were designed to devise a spray with sufficient residual action to prevent borer attack throughout a season with one application. Sprays were applied in late May or early June,



from seed to tree . . .

LANDSCAPE CONIFERS

*Man without woman;
Plants without bees;
Past without future;
Life without trees!*



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®
FORESTS**

Reading, R.D. 1, Pa.
3 Miles South of Reading on Route 73

Specialists in PERENNIALS

SEEDS—PLANTS—BULBS
Perhaps America's largest list of unusual plant materials.

Wholesale catalog on request.

PEARCE SEED COMPANY
Dept. N MOORESTOWN, N. J.

Concord Grape Roots
Red Raspberry
Flowering Shrubs
Boston Ivy
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IVAN R. CONGDON NURSERY
North Collins, N. Y.

HOLLIES - ILEX

American — English — Japanese

For shipment in the Japanese Beetle area only.



American Holly—1-gal.

AMERICAN HOLLIES

ILEX opaca EASHOVA FEMALES
Propagated from carefully selected, heavily fruiting trees growing on Virginia's eastern shore. Well rooted in cans.

	10	100	250
1-gal., 18 to 24 ins.	\$1.60	\$1.50	\$1.40
1-gal., 12 to 18 ins.	1.35	1.25	1.15
1-gal., 8 to 12 ins.	1.10	1.00	.90

ILEX opaca MARY SNOWELL

Heaviest-fruiting American Holly we ever observed. Handsome tall tree of medium breadth. Densely clothed with large, dark, rich leaves. Native to Maryland's eastern shore. Well rooted in cans.

1-gal., 18 to 24 ins.	1.85	1.75	
1-gal., 12 to 18 ins.	1.60	1.50	1.40
1-gal., 8 to 12 ins.	1.35	1.25	1.15

MALES, in cans

Cutting-grown from selected heavy pollinators.			
1-gal., 24 ins. and up	1.85	1.75	
1-gal., 18 to 24 ins.	1.60	1.50	1.40
1-gal., 12 to 18 ins.	1.35	1.25	
1-gal., 8 to 12 ins.	1.10	1.00	.90

NOTE: Sale of male hollies is normally limited to 50% of total females ordered.

ILEX opaca SEEDLINGS, mixed sexes

From seed from variety Mary Snowell—very heavy-fruiting; large, dark leaved. Useful for understocks. Also to grow on, looking for improved strains.

	100	250	1000
1-yr., 12 to 18 ins.	\$0.15	\$0.12	
1-yr., 6 to 12 ins.	.12	.10	\$0.08
1-yr., 3 to 6 ins.	.08	.07	.05
2-yr., 18 to 24 ins.	.25		
2-yr., 12 to 18 ins.	.20	.16	

LANDSCAPE SIZES

ILEX crenata compacta		250 and up
18 to 24-in. spread, B&B	10	100
15 to 18-in. spread, B&B	1.25	\$4.00
ILEX crenata convexa (bullata)		
18 to 24-in. spread, B&B	3.50	3.25
15 to 18-in. spread, B&B	4.00	3.50
12 to 15-in. spread, B&B	3.00	2.75
10 to 12-in. spread, B&B	2.25	1.90
8 to 10-in. spread, B&B	1.50	1.30
6 to 8-in. spread, B&B	1.10	.90
ILEX crenata rotundifolia		
18 to 24-in. spread, B&B	4.00	3.50
15 to 18-in. spread, B&B	3.00	2.75
12 to 15-in. spread, B&B	1.75	1.50
10 to 12-in. spread, B&B	1.10	.90

LANDSCAPE SIZES, Cont'd.

	10	100	250 and up
Ilex glabra			
2 to 2½ ft., heavy, B&B	\$3.50	\$3.25	
18 to 24 ins., heavy, B&B	3.00	2.75	
15 to 18 ins., heavy, B&B	2.50	2.25	
2 to 2½ ft., No. 1, B&B	2.75	2.50	
18 to 24 ins., No. 1, B&B	2.25	2.00	
15 to 18 ins., No. 1, B&B	1.90	1.70	
ILEX hatfieldi (crenata) x glabra			
18 to 24 ins., heavy, B&B	2.75	2.50	\$2.25
15 to 18 ins., heavy, B&B	2.25	2.00	1.75
18 to 24 ins., No. 1, B&B	2.25	2.00	
15 to 18 ins., No. 1, B&B	1.75	1.50	
12 to 15 ins., No. 1, B&B	1.25	1.00	
ILEX crenata microphylla			
12 to 18-in. spread, B&B	1.50	1.30	1.10



BLOCK of ILEX CRENATA CONVEXA

ENGLISH HOLLIES

FEMALES, in cans

Dorothea Arnold—(F)—Believed to be fairly hardy in the Boston area.

	10	50
1-gal., 24 ins. and up	\$2.75	\$2.50
1-gal., 18 to 24 ins.	2.40	2.15
1-gal., 12 to 18 ins.	2.00	1.75

Brownell Special—(F)

1-gal., 24 ins. and up	2.75	
1-gal., 18 to 24 ins.	2.40	
1-gal., 12 to 18 ins.	2.00	

Firecracker—(F)

1-gal., 12 to 18 ins.	2.00	
1-gal., 6 to 12 ins.	1.60	1.40

Green Weeping—(F)

1-gal., 6 to 12 ins.	1.60	
Rederly—(F)		
1-gal., 12 to 18 ins.	2.00	
1-gal., 6 to 12 ins.	1.60	1.40

Silvery—(F)—Variegated

1-gal., 6 to 12 ins.	1.60	
Teufel Hybrid—(F)		
One of the hardest strains.		
1-gal., 6 to 12 ins.	1.60	

MALES, in cans

Escort—(M)		
1-gal., 12 to 18 ins.	2.00	
Green Knight—(M)		
1-gal., 12 to 18 ins.	2.00	
1-gal., 6 to 12 ins.	1.60	

Malcolm Arnold—(M)—Believed to be reasonably hardy around Boston.

1-gal., 24 ins. and up	2.75	2.50
1-gal., 18 to 24 ins.	2.40	2.15
1-gal., 12 to 18 ins.	2.00	1.75

HYBRID HOLLIES

Aquilpernyi Brilliant—(F)	10
1-gal., 24 ins. and up	\$2.75
1-gal., 18 to 24 ins.	2.40
1-gal., 12 to 18 ins.	2.00

Aquilpernyi Male	
1-gal., 24 ins. and up	2.75
1-gal., 18 to 24 ins.	2.40
1-gal., 12 to 18 ins.	2.00

ILEX LINERS

ILEX crenata convexa (bullata)	100	250
1-yr., heavy, R. C., 5 to 8 ins.	\$0.08	\$0.07
2-yr., heavy, R. C., 8 to 10 ins.	.10	.09
1-yr., T. in peat pots, 5 to 8 ins., heavy	.17	.15
2-yr., T. from flats, 6 to 8 ins.	.17	.15
2-yr., T. from flats, 8 to 10 ins.	.20	.18
2-yr., T. from flats, 10 to 12 ins.	.22	.20
2-yr., TT. field, cutback 4 to 6-in. spread	.35	.30
3-yr., TT. field, cutback 4 to 6-in. spread	.45	
3-yr., TT. field, cutback 6 to 9-in. spread	.55	.50
3-yr., TT. field, cutback 9 to 12-in. spread	.65	.60
3-yr., TT. field, cutback 12 to 15-in. spread	.75	.70

ILEX crenata hetzi

1-yr., T. in flats, strong, cutback, 5 to 7 ins.	.17	.15
2-yr., TT. field cutback, 4 to 7 ins.	.35	.30

ILEX crenata microphylla—SUPERLINERS

3-yr., TT. 6 to 9 ins.	.60	.55
3-yr., TT. 9 to 15 ins.	.70	.65

ILEX crenata rotundifolia

2-yr., T. flats, 8 to 10 ins.	.18	.16
2-yr., T. flats, 10 to 12 ins.	.20	.18
4-yr., TT. field, 6 to 9-in. spread	.50	.45
4-yr., TT. field, 9 to 12-in. spread	.60	.55
4-yr., TT. field, 12 to 15-in. spread	.70	.65

ILEX glabra

1-yr., T. flats, strong, cutback, 6 to 8 ins.	.17	.15
2-yr., TT. field, 6 to 9 ins.	.35	.30

ILEX hatfieldi (crenata) x glabra

2-yr., T. flats, 9 to 15 ins.	.20	
2-yr., T. flats, 15 to 20 ins.	.25	



English Holly—1-gal.

TERMS—Prices shown are F.O.B. Keller, Va. Cash with order unless credit has been established.

SHIPMENT—Bare-root liners and one-gallon can

items shipped motor express or railway express in polyethylene bags and cartons.

B&B items by truck only—partial loads can be arranged.

WYMAN'S FRAMINGHAM NURSERIES, INC.

Worcester Rd., Framingham, Mass.

RHODODENDRONS OWN ROOTS

Hardy Hybrid Liners — Spring, 1961

REALISTIC REDUCTION IN PRICES — Possible only in a nursery that grows nothing else.

REDS—\$65.00 per 100

America
Caractacus

Dr. Dresselhuys
E. S. Rand
Ignatius Sargent

Nova Zembla
Van Wilgen's Ruby

Boule de Neige, white, dwarf, \$65.00 per 100

PINK, WHITE, LILAC and PURPLE—\$50.00 per 100

Everestianum
Gomer Waterer
Lee's Dark Purple

Mme. Masson
Catawbiense Album
Parsons Gloriosum
Purple Splendor

Purpureum Elegans
Roseum Elegans
Roseum Superbum

Above prices for 100 lots of any one variety. (Add 20% for smaller quantities.)

Also 300 other varieties of exotic hybrids and rare species. Send for special list.

Available Spring, 1961 — Same varieties as above, 6 to 10 ins., B&B, bedded

August, 1960, \$1.50 each. (Minimum, 20 per variety.)

50% cash with order, please. 10% reduction for pickup at nursery. All orders F.O.B. our nursery. Crating and shipping at cost.

TUMBLE BROOK RHODODENDRON NURSERY

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Phone: CH 6-2185

East Hartford, Conn.

Connecticut Valley Grown for Quality

**NOT A SO-CALLED "BARGAIN" BUT
A TRUE VALUE**

Taxus brevifolia	
12 to 15 ins.	\$2.50
15 to 18 ins.	3.25
Taxus cuspidata	
12 to 15 ins.	2.25
15 to 18 ins.	3.00
Thuja wareana	
15 to 18 ins.	1.50
18 to 24 ins.	1.75

**Tree Peonies, Dogwoods,
Crab Apples, Laburnums,
Yews and Juniperus**

Large assortment of Flowering
Shrubs in larger sizes, all B&B

Ask for complete retail catalog and
discounts.

VANDER POL NURSERIES

Fairhaven, Mass.

W. T. SMITH CORP.

Daniel P. Quigley, Pres.

Established 1846

Phone: 2689

Geneva, N. Y.

Write for our NEW
SPRING NURSERY STOCK
TRADE LIST

and the bark was removed in October or November in order to record the number of borers present.

Dr. Neiswander presented a number of tables showing data that have been obtained over the past several years.

Parathion and malathion have yielded consistently good results, but at the concentrations used were somewhat less effective than dieldrin or Sevin. Dieldrin at the rate of two gallons of the 18.6 per cent emulsion to 100 gallons of water has given complete protection from borers. Sevin at the rate of 10 pounds of the 50 per cent powder to 100 gallons of water was also effective. With DDT, the emulsion, at eight pounds to 100 gallons of water, showed longer lasting qualities than the wettable powder, 16 pounds to 100 gallons. It was evident from the data that dieldrin and Sevin are more reliable than DDT when used in one application.

In cases where it is advisable to wrap the trunks of transplanted trees to prevent sunscald, the practice of first saturating the wrapping material with an insecticide often is a simple and inexpensive method of preventing borer attack. Since high concentrations of insecticides can be used in this manner, treated bands should remain toxic to borers for a long period of time.

Since flatheaded apple-tree borers attack only weakened trees, the first consideration in attempting control measures should be that of restoring vigor to the trees as quickly as possible.

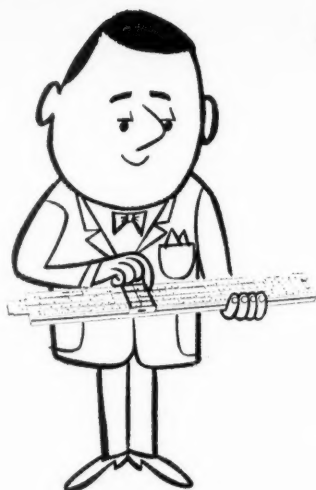
Dogwood Borer and Lilac Borer

Dogwood trees are subject to attack by both the flatheaded apple-tree borer and the dogwood borer. In tests run in 1955, dogwood trees were sprayed with two to four applications of DDT, dieldrin, parathion and Chlordane. No borer injury could be detected on the sprayed trees during the latter part of the season.

The lilac borer is primarily a pest of lilac, but sometimes also attacks mountain ash or privet. In 1957, lilac borer was almost completely controlled with two gallons of the 25 per cent emulsion DDT in 100 gallons of water, applied as a spray June 5.

Bronze Birch Borer

The injury due to the bronze birch borer first appears in the top of a tree and gradually extends downward until the tree is dead. Because the beetles feed to some extent on the foliage and because the damage first appears in the tops of the trees,



Any way you figure it . . .

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WISE INVESTMENT WHEN YOU
ADVERTISE IN**

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**JULY 1 A. A. N.
CONVENTION NUMBER**

**SPECIAL RATES
FOR
COLOR ADS**

**4-COLOR ADS
\$325 PER PAGE**

Full, living, vibrant color which brings out the depth and brilliance of your color illustration.

Printed on patent-base presses; unmounted electros of 11-pt. thickness, with beveled edge, required.

**2-COLOR ADS—
\$200 PER PAGE**

Eye-catching ads in either green-and-black or red-and-black, to spark up your advertising message.

Regular wood-mounted type-high plates are used in printing these special 2-color pages.

Copy and cuts will not be required until May 1 for the color pages. (Black-and-white forms close even later, but early receipt of copy will assure proofs before publication.) **BUT REMEMBER—the reservation deadline for the 4-color ads is APRIL 1. Don't put off scheduling space for your color page!**

The 1961 annual convention of the American Association of Nurserymen will be held at Washington, D. C., July 15 to 20. Because of the many outstanding tourist attractions in the nation's capital, this convention is sure to draw a record attendance. American Nurseryman readers will give close attention, therefore, to the July 1 issue which will carry the complete program for the convention and many other important convention-time features. Combine the timeliness of this special issue with the attractiveness of color advertising to insure the greatest possible attention for your sales message.

- ✓ **ONLY SPECIAL ISSUE OF THE YEAR**
- ✓ **MAILED TO REACH READERS TWO WEEKS BEFORE THE CONVENTION OPENS**
- ✓ **RETAINED BY READERS FOR USE AS A "BUYERS' GUIDE" THE YEAR AROUND**

Order your color space NOW. All reservations for color advertising must be received by April 1.

AMERICAN NURSERYMAN

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CHICAGO 4, ILL.



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Certified for
Western Shipment

Bulk's Nurseries Inc.

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Smithburg-Manalapan Rd., FREEHOLD, N.J., 201 HOplins 2-5500



DOUGLAS FIR

B&B

	Per 10	Per 100
2 to 3 ft.	\$35.00	\$300.00
3 to 4 ft.	45.00	400.00
4 to 5 ft.	50.00	450.00

FRASER FIR

Seedlings

	Per 1000
3-yr., 4 to 7 ins.	\$45.00

ECCLES CHRISTMAS TREE FARMS
Box 65 Rimersburg, Pa.

RHODODENDRON LINERS

Own Root

Well-established transplants for field bed planting.

May 1 delivery. In a wide range of varieties.

\$85.00 per 100

Packing free, cash with order.
Send for new list.

WELLS NURSERY

Box 141 Red Bank, N. J.

AMERICAN HOLLY

Hardy Northern Varieties

Rooted Cuttings, 1-yr.,
Transplants

See Our Classified Ad
Under Holly

Conifer Seedling List on Request

DUNEGAN NURSERY

Clymer, Pa.

LINERS

Taxus, 1 and 2-yr.; Hydrangea Hills of
Snow, Cydonia japonica, Red-leaved
Barberry, Forsythia Spring Glory, etc.

BROUWER'S NURSERIES

P. O. Box 25 New London, Conn.

LARGE PINK DOGWOODS

Well-spaced, 3x6 ft., 6 to 8 ft. high,
full of buds.

B&B EVERGREENS

Write for price list.

CLINTON NURSERIES

Clinton, Conn.

LINING-OUT STOCK

In Wide Assortment

Acer atropurpureum Bloodgood,
Azaleas, Berberis, Cornus florida
rubra, Evergreens, Ilex, Magnolias,
Hybrid Rhododendrons, Taxus, in
variety, etc., in 1, 2 and 3-yr. trans-
plants at competitive prices. Write
for list on business stationery.

DEERFIELD NURSERIES

Deerfield, N. J.

SHEPARD NURSERIES

Growers and Distributors of

ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

"Treat's Trees"

TAXUS

BOLTON EVERGREEN NURSERIES
R. F. D. No. 2 Manchester, Conn.
Phone: Mitchell 9-2377

sprays designed to control the pest must be applied to the entire tree. Work done at the experiment station showed that it could be controlled by spraying with a combination of malathion, 57 per cent emulsion at the rate of one quart to 100 gallons, and 25 per cent DDT emulsion at the rate of one-half gallon to 100 gallons of water. Two applications are needed, the first during the latter part of May and the second three weeks later.

In conclusion, Dr. Neiswander pointed out that modern control measures for the wood-boring insects that attack shade trees and shrubs are designed to prevent borer attack. The deposit of a toxic insecticide is maintained during the entire egg-laying period on the bark where eggs are deposited.

Borers that begin laying eggs in late May or early June on the trunks of trees or on the main stems of shrubs are the flatheaded apple-tree borer, the rhododendron borer, the lilac borer and the dogwood borer. Although egg laying may continue for more than two months, present data indicate that all of the pests can be controlled with one application of dieldrin or Sevin made during the latter part of May.

Because the bronze birch borer first attacks relatively small branches in the top of a birch tree and because the adult beetles feed on the foliage, sprays for its control are applied to the entire tree. Consequently, a more dilute spray is used, and two applications are needed.

MARYLAND DAY

[Continued from page 10]

river. Indications that fluorine in the atmosphere might be the causal atmosphere resulted in the appropriation of \$13,000 by the New Jersey state legislature to study the problem—one of the first air pollution projects to be initiated in the United States.

Sulphur dioxide, chlorine and hydrogen fluoride are three acid gases poisonous to vegetation. Although the three may produce somewhat similar symptoms in a particular plant, species vary in their susceptibility to each of the gases. Corn and peaches are markedly susceptible to sulphur dioxide but are resistant to sulphur dioxide and tolerant to hydrogen fluoride.

Even among plants of the same species, variation in susceptibility is noted due to differences in heredity, health of the plant and water and light relationships. Orchards, Dr. Daines observed, which are best

*for healthier, more salable ornamentals
and nursery stock*

depend upon these **GEIGY
AGRICULTURAL
CHEMICALS**

DIAZINON
INSECTICIDE

Residual phosphate insecticide. Controls bagworms on arbor vitae and juniper; privet mites on azalea, aralia and ivy; aphids and bud mites on carnations; aphids and bud moths on holly; chinch bugs, chiggers, fleas in turf.

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Controls two-spotted mite on roses; spruce mite on spruce, arbor vitae, hemlock; two-spotted mite on taxus, azalea; Southern red mite on holly; clover mite on turf and shrubbery. Safe, effective long residual, economical. Non-irritating to skin.

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3-yr.	15c	3-yr.	25c
2-yr.	12c	2-yr.	20c
<i>Ilex helleri (crenata)</i>		<i>Taxus hicksi, upright</i>	
3-yr.	17½c	3-yr.	22½c
2-yr.	15c	2-yr.	17½c
<i>Ilex crenata microphylla</i>		<i>Taxus hatfieldi, upright</i>	
2-yr.	15c	3-yr.	22½c
<i>Ilex crenata rotundifolia</i>		2-yr.	17½c
3-yr.	15c	<i>Taxus Lynch No. 1, dwarf spreading</i>	
<i>Juniper, Armstrong</i>		3-yr.	22½c
3-yr.	25c	2-yr.	17½c
<i>Taxus cuspidata capitata</i>		<i>Taxus T-31, semiglobe</i>	
4-yr., S., T.	25c	3-yr.	22½c
3-yr., S., T.	20c	2-yr.	17½c
<i>Taxus cuspidata, spreading</i>		<i>Taxus, Vermeulen, upright</i>	
3-yr.	22½c	3-yr.	22½c
2-yr.	17½c	2-yr.	17½c
<i>Taxus browni, vase shape</i>		<i>Tsuga canadensis</i>	
3-yr.	22½c	3-yr., T.	30c
2-yr.	17½c	2-yr., T.	25c

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9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.50	100.00
18 to 24 ins., S.	30.00

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of the January 1 issue.

cared for and growing best appear to suffer most from air pollution; the more succulent the growth, the more susceptible the plant.

Sulphur dioxide may affect vegetation when ground levels exceed 0.3 to 0.5 parts per million. This gas is absorbed into the leaf when the stomata are open, and resultant injury may occur.

Hydrogen fluoride is extremely toxic to plants; certain gladiolus species having been injured by concentrations as low as 0.1 to 0.2 parts per billion. Injury from this gas is not so dependent upon open stomata as that from sulphur dioxide.

California Smog Problem

Since 1944 a new type of injury to vegetation has been recognized in Los Angeles county, California, and other parts of the world. It was at first termed smog injury, and more recently oxidant injury. The area involved in California is large, encompassing all of Los Angeles county and extending as far south as the Mexican border. Visible damage to 11 crops has been estimated at over \$3 million annually in this county alone.

In experiments, Dr. Daines reported, gasoline fumes were not phytotoxic even in concentrations of several parts per million of air nor was nitrogen oxide, in reasonable proportions. However, when vapors of gasoline were mixed with either ozone or nitrogen oxide in the presence of sunlight, a plant-toxic oxidant was formed that caused injury to the lower leaf surfaces of various plants.

It is interesting to trace the source of these air pollutants, Dr. Daines stated. Hydrocarbons that are not completely burned reach the free air from all types of combustion. In Los Angeles county 1,411 tons are released daily into the air from automobiles, refineries and other industrial and commercial establishments. Automobiles alone add 1,000 tons daily.

Nitrogen oxide is produced from oxygen and nitrogen in the air by any hot combustion source such as an open fire, a home furnace or an automobile combustion chamber. Motor cars contribute 430 tons daily; refineries, 56 tons, and industrial and commercial sources, 215 tons. Dr. Daines observed that this problem is expected to increase as Americans become 2-car families and drive more and more on the new super-highways.

Affects New Jersey Crops

Oxidant injury has been observed in New Jersey on certain vegetable crops and on petunias and snap-

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6 to 8 ft., 4-gal.	3.00

Flowering Peach—Red, Peppermint, Pink	
4 to 5 ft., 4-gal.	2.00

Tree Wistaria, Purple	
2 to 3 ft., B&B	2.50

Tree Wistaria	
2 to 3 ft., 4-gal.	3.00

Redbud, American	
4 to 5 ft., B. R. ....	.75
5 to 6 ft., B. R.	1.00
6 to 7 ft., B. R.	1.50
7 to 8 ft., B. R.	1.75
5-gal.	2.00

Purple-Leaved Plum, Newport	
4 to 5 ft., 4-gal.	2.00

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Berekmans Golden Arborvitae	
24 to 30 ins.	1.50
30 to 36 ins.	1.75

Baker Arborvitae	
30 to 36 ins.	1.25

Bonita Arborvitae	
18 to 24 ins.	1.00
24 to 30 ins.	1.25

Bonita Arborvitae, upright	
24 to 30 ins.	1.00
30 to 36 ins.	1.25
3 to 4 ft.	1.75

Excelsa Arborvitae	
3 to 4 ft.	1.75
4 to 5 ft.	2.00

Gold Cone Arborvitae, dwarf	
18 to 24 ins.	1.00

Blue Cone Arborvitae	
24 to 30 ins.	1.00
30 to 36 ins.	1.25
3 to 4 ft.	1.75

Arizona Cypress, grafts	
4 ft.	3.00

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12 to 15 ins.	1.00
24 to 30 ins.	1.75
1-gal.60

Compact Pfitzer Juniper	
15 to 18 ins.	1.50
18 to 24 ins.	1.75
24 to 30 ins.	2.25

CONIFERS, Cont.

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24 to 30 ins.	\$2.25
30 to 36 ins.	2.75
1-gal.60

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15 to 18 ins.	1.50

Tamariscifolia Juniper	
15 to 18 ins.	2.00
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42 to 48 ins.	4.50

Keteleer Juniper	
42 to 48 ins.	4.50

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1-gal.55

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1-gal.65

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1-gal.50

Yaupon Holly	
1-gal.55

Jasmine, floridum	
1-gal.55

Magnolia grandiflora	
1-gal. ....	.85

Slash Pine	
1-gal.55

Pyracantha lalandi	
1-gal., staked55

2-gal., staked	1.25
4-gal., staked	1.75

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1-gal., staked55
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3 to 4 ft., 4-gal.	1.25

Pomegranate, dwarf	
15 to 18 ins., B&B75

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Spiraea vanhouttei	
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24 to 30 ins.	1.25
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2-gal.	1.00
4-gal.	1.75

Purpurea Honeysuckle	
18 to 24 ins.	1.00
1-gal.50

Euonymus japonicus	
18 to 24 ins.	1.00
24 to 30 ins.	1.25
1-gal.55
4-gal.	1.75

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1-gal.55

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18 to 24 ins.	1.00
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1¼ to 1½-in. cal., B. R.	1.50
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Mimosa	
8 to 10 ft., B. R.	1.75
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1½ to 2 -in. cal., B. R.	2.50

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1¼ to 1½-in. cal., B. R.	1.50

Sycamore, American	
8 to 10 ft.	1.00
1¼ to 1½-in. cal.	1.50
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3-yr., S., 8 to 14 ins...	4.00	20.00
3-yr., S., 10 to 18 ins...	5.00	25.00
French Scotch		
2-yr., S., 1 to 3 ins...	1.50	7.50
2-yr., S., 3 to 6 ins...	4.00	20.00
3-yr., S., 6 to 13 ins...	5.00	25.00
4-yr., S., 12 to 20 ins...	8.00	40.00
(2-3), T., 6 to 10 ins...	10.00	50.00
(2-3), T., 10 to 15 ins...	16.00	75.00
(2-3), T., 15 to 18 ins...	25.00	....
Spanish Scotch		
2-yr., S., 1 to 3 ins...	1.50	7.50
2-yr., S., 3 to 6 ins...	4.00	20.00
2-yr., S., 4 to 8 ins...	5.00	25.00
3-yr., S., 6 to 12 ins...	5.00	25.00
Austrian Pine		
2-yr., S., 1 to 3 ins...	1.50	7.50
2-yr., S., 3 to 5 ins...	3.00	15.00
3-yr., S., 8 to 15 ins...	6.00	30.00
White Pine		
2-yr., S., 1 to 2 ins...	2.00	10.00
2-yr., S., 2 to 5 ins...	3.00	15.00
3-yr., S., 4 to 8 ins...	7.00	....
Mugho Pine, true dwarf		
3-yr., S., 1 to 3-in. height or spread	7.00	35.00
(2-4), T., 10 to 18 ins., \$1.00 each		
Douglas Fir (glauca)		
3-yr., S., 2 to 4 ins...	3.00	15.00
3-yr., S., 4 to 8 ins...	6.00	30.00
4-yr., S., 3 to 5 ins...	4.00	20.00
4-yr., S., 5 to 10 ins...	8.00	40.00
5-yr., S., 8 to 15 ins...	15.00
(2-2), T., 3 to 7 ins...	10.00
(2-3), T., 7 to 12 ins...	20.00
Concolor Fir		
3-yr., S., 2 to 4 ins...	3.00	15.00
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Balsam Fir		
3-yr., S., 1 to 3 ins...	3.00	15.00
3-yr., S., 3 to 6 ins...	6.00	30.00
(2-2), T., 4 to 8 ins...	15.00
Fraser Fir		
2-yr., S., 1 to 2 ins...	4.00	....
Colorado Blue Spruce		
3-yr., S., 2 to 4 ins...	2.00	12.50
3-yr., S., 4 to 8 ins...	5.00	25.00
4-yr., S., 6 to 10 ins...	8.00	40.00
4-yr., S., 10 to 16 ins...	13.00	65.00
(3-2), T., 3 to 6 ins...	10.00	50.00
(3-2), T., 6 to 12 ins...	20.00	90.00
(3-2), T., 12 to 15 ins...	50.00	....
White Spruce		
3-yr., S., 2 to 4 ins...	2.00	12.50
3-yr., S., 4 to 8 ins...	5.00	25.00
4-yr., S., 8 to 12 ins...	7.00	35.00
(2-4), T., 6 to 12 ins...	13.00	65.00
(2-4), T., 12 to 18 ins...	20.00	100.00
(2-4), T., 18 to 24 ins...	30.00	150.00
Black Spruce (Picea mariana)		
3-yr., S., 2 to 4 ins...	2.00	12.50
3-yr., S., 4 to 8 ins...	4.00	20.00
Black Hills White Spruce (Picea glauca densata)		
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3-yr., S., 4 to 8 ins...	5.00	25.00
4-yr., S., 6 to 12 ins...	8.00	40.00
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3-yr., S., 3 to 6 ins...	4.00	20.00
3-yr., S., 6 to 10 ins...	7.00	35.00
Norway Spruce		
2-yr., S., 2 to 4 ins...	2.00	10.00
2-yr., S., 4 to 8 ins...	4.00	20.00
3-yr., S., 6 to 10 ins...	5.00	25.00
3-yr., S., 10 to 14 ins...	7.00	35.00
4-yr., S., 14 to 20 ins...	10.00	50.00
(2-2), T., 3 to 6 ins...	8.00	40.00
(2-2), T., 6 to 12 ins...	13.00	65.00
(2-2), T., 10 to 20 ins...	25.00	....
American Arborvitae		
3-yr., S., 2 to 4 ins...	4.00	20.00
3-yr., S., 4 to 8 ins...	7.00	35.00
Canadian Hemlock (Upright Pyramidal)		
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3-yr., S., 1 to 3 ins...	10.00	50.00
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dragons. It is common enough to be often called by its most conspicuous symptom, "silver-leaf."

Although the symptoms differ among the plant species, a silverying of the undersurface of the youngest fully expanded leaves is the most characteristic injury expression. This silverying results from the destruction of the cells just under the lower epidermis and their consequent separation from the remainder of the leaf by an air layer.

Plants Subject to Injury

Dr. Daines continued with a series of slides showing injuries to plants due to various air pollutants. Members of the lily and gladiolus family are especially susceptible to hydrogen fluoride injury, even from sources 50 miles away.

Maples appear to be unaffected, but various pines are highly vulnerable. Black cherry is also extremely sensitive, with heavy leaf shedding and defoliation resulting from the pollutants. Ozone injury to pines shows up as small yellow spots on the needles; with fluoride, the entire needle is damaged. Petunias are highly sensitive to ozone injury, and some New Jersey growers have discontinued growing the white varieties for this reason.

In concluding his talk, Dr. Daines stated that air pollution may well be considered one of the major problems affecting agriculture in New Jersey. Three avenues of solution are possible: Chemicals to give plants protection, selection to develop immune varieties and close co-operation with the automobile manufacturers to equip all cars with afterburners.

The morning program ended with a talk on insecticides of interest to nurserymen and garden center operators by Dr. Warren T. Johnson, assistant professor, department of entomology, University of Maryland. Insecticides, Dr. Johnson said, fall into four classes: Miticides, soil insecticides, summer foliage sprays and dormant sprays.

Recommended Miticides

Aramite, Kelthane and ovex are recommended as miticides for Maryland. Ovex is particularly effective against mite eggs and has a rather long residual effect against spider mite adults on plant foliage unless the population has become resistant to the chemical.

Dieldrin and Chlordane are useful against soil-inhabiting insects. Dieldrin is rather toxic and should be used with caution. Chlordane is particularly effective against Japanese

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beetles, white grubs and the black vine weevil.

Of the many useful summer foliage sprays, DDT, lead arsenate, lindane, melathion and Sevin are considered most suitable for Maryland. Sevin, Dr. Johnson stated, is new and quickly effective against many insects. It is useful in the control of bagworms, Mexican bean beetles, adult Japanese beetles, codling moths and leaf rollers. It has given phenomenal control against the 17-year locust or cicada. It is safe to use and does not have so objectionable an odor as Malathion.

Nurserymen, Dr. Johnson noted, have not placed so much emphasis on dormant sprays as have the orchardists. Since dormant sprays are especially effective in controlling aphids, mites and scales and can reduce the numbers of cankerworms and tent caterpillars, Dr. Johnson believes that nurserymen should consider more dormant spraying. This should reduce the number of spring and summer sprays necessary for good insect control.

Dormant sprays include the dinitros, lime-sulphur and superior dormant oils. The oils are low in cost and easy to handle and they spread and cover well. They should not be applied when the temperature is below freezing nor when there is likelihood of a freezing night. The dinitros and lime-sulphur sprays will stain woodwork and masonry, he warned.

New Dormant Spray

Ethion is an effective new dormant oil spray which now has United States Department of Agriculture acceptance for use on taxus, arbovitae, magnolias, tulip tree, elms, sugar and Japanese maples, box wood, junipers, ash, birch, privet, dogwood, oak, willow and some pines. It is not approved for use on walnut, Douglas fir or Colorado blue spruce.

Dr. Johnson cautioned the nurserymen to use dormant sprays only when plants are dormant, when the temperature is 50 degrees Fahrenheit or above and to use only one spray per season. Do not repeat a dormant spray, he emphasized.

C. M. Akehurst, Akehurst Nursery, Fullerton, Md., first vice-president, Maryland Nurserymen's Association, presided during the afternoon session. Pardon W. Cornell, in charge of production for C. R. Burr & Co., Manchester, Conn., discussed efficient organization and methods for the production of nursery crops.

The Burr nursery, he said, comprises some 400 acres on eight dif-



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2-yr., 2 to 3 ft....	7.00	65.00	600.00
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4 to 5 ft., \$2.00 each.			

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Soeur Therese
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TWO-TONE

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Condesa
Pres. Hoover
Talisman
Contrast

WHITE

K. A. Viktoria
Caledonia
White American Beauty

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Betty Prior
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Cl. Red Radiance
Cl. Pink Radiance
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Tyler, Tex.

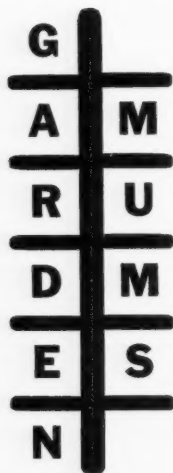


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Rapid, efficient service

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LARGE SHADE TREES

PIN OAK • RED OAK • SWEET GUM

4 to 10-in. cal.

Many other landscape items
in specimen material. All
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65 Acres—Established 40 Years

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HARDY ENGLISH IVY, HARDY BALTIC IVY

Rooted cuttings for landscape planting.

\$7.50 per 100; \$65.00 per 1000.

Peat pots,

\$15.00 per 100; \$150.00 per 1000.

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HAVE YOU TRIED PERENNIALS? by C. H. Potter. Important information for the grower. 160 p., illus. \$3.00.

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ORNAMENTAL EVERGREENS

Trees and Shrubs

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Dept. American Nursery Co.

R. D. 1

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Established 1790

Growing a general line of nursery
stock.

Specializing in shade and orna-
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Serving the Wholesale Trade

ferent farms. It has approximately 19 regular employees but this varies from 13 to 40 depending upon the season. It produces 100,000 finished evergreens a year besides crab apples, shade trees and various shrubs.

Propagating Procedure

The evergreens are propagated mainly from cuttings and seedling liners. Large cuttings are used since these produce larger plants in a shorter time. With the exception of arborvitae, all evergreen cuttings are potted in 3-inch Jiffy-Pots as soon as they are well rooted. This reduces the spring work load and prevents additional potting shock.

The plants are placed in beds four feet wide in which eight cords of manure to the acre have been plowed and worked deeply into the soil. The plants are graded into uniform sizes, so that all are removed at one time, leaving the area free for whatever nursery practice is to follow. Mimeographed instructions are always available listing exactly what must be done in advance of any operation.

The nursery's program of fertilization is a well-rounded one and is carried out in a balanced fashion during the year. No weed killers are used; two men are cultivating continuously even though no weeds may appear to be present. Potato hooks rather than hoes are used for all hand weeding. If the weed will not come out with the hook, the laborer must pull it out by hand. Evergreens are sheared whenever necessary during the year to produce full, well-formed plants.

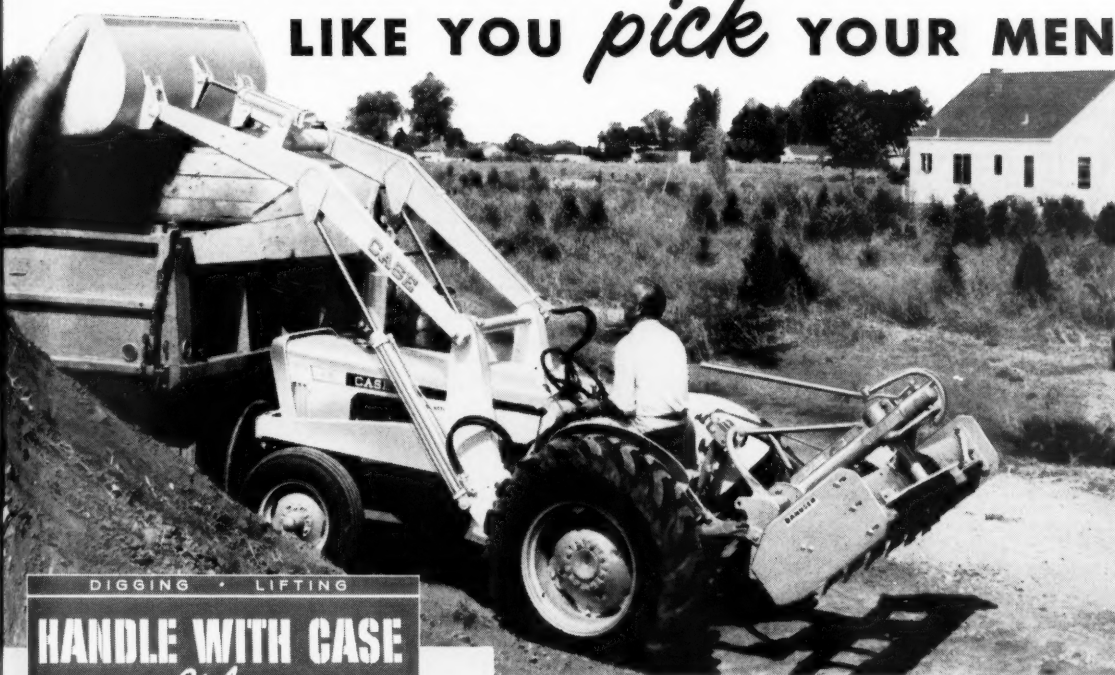
In outlining the various methods by which the Burr company has achieved efficiency, Mr. Cornell stated that one of the most important factors was the development of a system to determine exactly what each plant costs to produce.

Customers Need Information

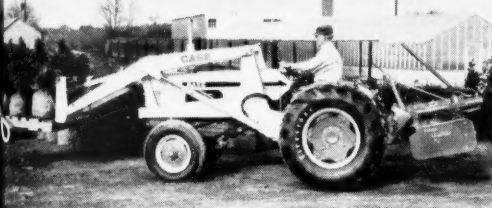
Wilbur H. Youngman, garden editor, the Washington Star, Washington, D. C., told the nurserymen that they must operate on the basis that the new homeowner knows very little about what should be planted on his property. By working with him and gaining his confidence, the nurseryman can acquire a satisfied customer for years to come.

Education, he observed, is a continuing process. Each year he receives requests for such simple information as when and how to plant various trees, shrubs and flowers. It would be good insurance, Mr. Youngman noted, for all nurserymen and garden center operators to

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Utility
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Case 430 handles stock, materials and equipment with quick-change attachments on loader arms.



With a fast-digging Case 10' Backhoe on your 430 Loader, you're equipped to dig big planting holes, tile and drainage trench... handle profitable off-season subcontract work, too.

Selecting a tractor outfit is much like hiring an employee. In both, you try to choose the one that will do the most work per dollar. That's why it's important, in work as diversified as yours, to buy a *versatile* tractor-rig that you can keep busy on a wide range of tasks... a machine with the largest variety of attachments to fill every one of your present and future needs... a Case 430 *Utility* Loader.

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The all-purpose blade with scarifier-scraper (illustrated above) is one of dozens of rear tools available for your general or specialized tasks. Or, you can equip your 430 with a 6' center-mounted rotary, or side cutter-bar mower, for alternating from loader and rear-tool work. A Case 10' rear backhoe is also available.

Try one on your work. See how the Case 430 mechanizes *more* of your tasks for *lower* "work" costs. Call your Case Dealer for free demonstration. Or write for full information to J. I. Case Co., Racine, Wis., Dept C1611.

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	Dozen	100
ABELIOPHYLLUM <i>Distichum</i> , often called White Forsythia, 2 to 3 ft.	\$15.00	\$100.00
CARYOPTERIS <i>Heavenly Blue</i> (Plant Patent No. 1091) Deep blue color. Autumn flowering, 2-yr.	0.50	60.00
CORNUS <i>Alba Atrosanguinea Coral Beauty</i> , stems are brilliant coral-red in winter, 3 to 4 ft.	20.00	150.00
<i>Officinalis</i> (Improved Mas), clusters of yellow flowers in February and March, 3 to 4 ft.	20.00	150.00
COTONEASTER <i>Divaricata</i> , low growing. Brilliant red fruits in autumn, 2 to 3 ft.	18.00	125.00
CYDONIA <i>Nivalis</i> , white flowering, 2 to 3 ft.	20.00	150.00
<i>Rosea</i> , clear pink flowers, 3 to 4 ft.	15.00	100.00
<i>Stanford Red</i> , large, geranium-red, deepening to blood- red, 3 to 4 ft.	15.00	100.00
EUONYMUS <i>Ainus Compactus</i> , brilliant autumn foliage, 2 to 3 ft. ...	20.00	150.00
FLOWERING PEACHES <i>Double Red Weeping</i> , 3 to 4 ft.	12.00	80.00
<i>Double White Weeping</i> , 3 to 4 ft.	12.00	80.00
FORSYTHIA <i>Spring Glory</i> , large, pale yellow flowers, 2 to 3 ft.	9.00	55.00
<i>Lynwood Gold</i> , golden-yellow flowers, 3 to 4 ft.	11.00	75.00
HYPERICUM <i>Hidcote</i> , golden-yellow flowers. Dwarf, improved Moserianum	10.00	65.00
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PHILADELPHUS <i>Belle Etoile</i> , milky-white flowers with light purple blotch in center, 2 to 3 ft.	8.00	50.00
POTENTILLA <i>Gold Drop</i> , compact growing. Brilliant golden-yellow flowers June to October, 2 to 3 ft.	11.00	75.00
SORBUS <i>Aucuparia</i> (Mountain Ash), prolific fruiting, 6 to 8 ft. ...	27.00	200.00
SPIRAEA <i>Japonica Coccinea</i> (Improved Anthony Waterer), 15 to 18 ins.	5.25	30.00
VIBURNUM <i>Carlecephalum</i> (Plant Patent No. 776) Fragrant Snowball 15 to 18 ins.	20.00	150.00
18 to 24 ins.	25.00	190.00
2 to 3 ft.	30.00	225.00
<i>Opulus Nanum</i> , dwarf plant for edgings and low hedges, 8 to 10 ins.	9.00	55.00
<i>Setigerum</i> , dense clusters of glistening red berries in autumn, 3 to 4 ft.	18.00	125.00

Six plants of one variety at the dozen rate;

25 plants of one variety at the 100 rate.

Write for our special offer of some 50 unusual flowering shrubs in addition to these listed here. If you do not have our trade catalog, we shall be glad to mail it upon request.

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FLOWER BULBS · ROSES · SHRUBS · HARDY PLANTS

Mentor, Ohio

Mention The American Nurseryman when you write.

PIN OAK SEEDLINGS

Quercus palustris

	Per 100	Per 1000
6 to 12 ins.	\$ 6.00	\$ 55.00
12 to 18 ins.	8.00	75.00
18 to 24 ins.	12.00	100.00
2 to 3 ft.	17.00	140.00

LEAVENWORTH NURSERIES

L. C. Gatewood Betty Gatewood
12th and Vilas Leavenworth, Kan.

FORSYTHIA LYNWOOD GOLD

Suitable for canning.

	Each
18 to 24 ins.	30c
2 to 3 ft.	40c

WHITEMAN'S GARDENS

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EVERGREENS

Growers of Quality Evergreens
Lining-out Stock a Specialty

Write for Trade List

EVERGREEN NURSERY CO.

Established 1864 : STURGEON BAY, WIS.

provide simple, inexpensive literature covering the many aspects of the planting, pruning and care of the various plants they handle.

He cautioned the nurserymen to be sure they sell only proved strains that are well adapted to the area in which they are to be planted. The overabundance of varieties in certain materials is confusing, but disappointment and discontent are bound to arise if the nurseryman is not certain that the varieties he sells are well adapted to the place where his customers wish to plant them.

Mr. Youngman also recommended more attention to the use of all-purpose sprays and dusts for insect and disease control. New home gardeners are not chemists; they dislike mixing and stirring. It may become tiresome, but nurserymen must continue their educational efforts as more and more homeowners become gardeners.

The program was concluded with an illustrated talk on the landscaping of Colonial gardens by Gilbert Gude, A. Gude & Sons Co., Rockville, Md. Mr. Gude, immediate past president of the Maryland Nurserymen's Association, showed many beautiful examples of Colonial gardens along the Atlantic seaboard, including those of Colonial Williamsburg.

Present Check for Research

A highlight of the day's program was the presentation of a \$1,000 check by the Maryland Nurserymen's Association to the department of horticulture, University of Maryland, toward a graduate research fellowship. Carville G. Akehurst, Akehurst Nursery, made the presentation for the association while Dr. I. C. Haut, head of the department of horticulture, accepted the gift on behalf of the university.

Dr. Conrad B. Link discussed current research being carried out as the result of a similar association gift made in 1958.

HORTICULTURAL CENSUS

[Continued from page 7]

ing in 1959, against 962 in 1949. The number of plants sold in 1959 was 19,865,636, against 27,991,902 in 1949. States accounting for the largest dollar volume gain and others with a significant increase are the following: Indiana, \$93,007 to \$236,471; Iowa, \$88,442 to \$324,609; Michigan, \$433,065 to \$739,468; New York, \$114,551 to \$371,234; Oregon, \$43,798 to \$255,918, and Pennsylvania, \$132,697 to \$177,328. Two states showing a large drop in



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TWO RUGGED
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PERENNIAL POTS IN FOUR SIZES**

The economical lightweight Bird Perennial Pot serves most of your normal requirements — for roses, mums, shrubs, and bulbs. Where you need an extra rugged container for extended growing periods and rough use, choose the heavyweight Bird Perennial Pot. Whatever your requirements, Bird Perennial Pots enable you to display and sell plants at their full maturity — when they look best and command top prices.

Bird Perennial Pots have a special hard coating inside and out for extra durability. They reach you fully assembled, with solid stapled bottom, to save set-up time. Openings in bottom plus knock-out ports in side walls allow for ample drainage. You get low cost, high value from either of Bird's Perennial Pots — lightweight or heavyweight. Order from your distributor or write for literature on all Bird Containers to Dep't AN.

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Ht.	Top Diam.	Bottom Diam.	Quan. per Case	Wt. (lbs) Per Case	Price Per M	Quan. per Case	Wt. (lbs) Per Case	Price Per M
5"	8"	7"	200	65	\$65.00	100	46	\$77.50
5 1/2"	5"	4"	200	33	47.50	200	52	56.00
6 1/2"	6"	4 1/2"	200	44	58.50	200	72	66.80
9 1/2"	7"	5 1/2"	200	71	69.00	100	60	79.50

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MASSACHUSETTS

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QUALITY NURSERY STOCK — SPRING, 1961

Ash, Green

Prunus triloba, own root and buds

Ash, Mountain

Lilac, rothomagensis

Birch, White

Philadelphus Minnesota Snowflake

Crab Apple, Almey

Potentilla fruticosa

Crab Apple, Hopa

Spiraea Anthony Waterer

Maple, Norway

Viburnum opulus sterile

Send for complete list.

J. V. BAILEY NURSERIES

1325 Bailey Rd.

St. Paul 19, Minn.

sales were California, \$360,333 to \$143,700, and Ohio, \$510,358 to \$312,433.

Rose Plants

In rose plants sales increased from \$11,328,071 to \$15,864,253, with 926 establishments reporting in 1959, against 1,435 in 1949. The number of plants sold in 1959 was 47,756,621, against 46,230,329 in 1949. The inventory of plants as of January 1, 1960, was 68,869,500. States accounting for the largest dollar volume gain and others with a significant increase are the following: Arizona, \$14,139 to \$2,251,830; California, \$3,210,755 to \$6,308,802; Oregon, \$671,228 to \$1,058,722; Pennsylvania, \$402,520 to \$681,066; Ohio, \$472,469 to \$510,070, and Texas, \$3,268,086 to \$3,484,798. In Iowa the volume decreased from \$1,050,386 in 1949 to \$8,733 in 1959.

Forest Tree Seedlings

In forest tree seedlings, not including seedlings grown by federal, state or local government agencies, sales increased from \$1,456,595 to \$3,236,967, with 189 establishments reporting in 1959, against 167 in 1949. The number of seedlings sold in 1959 was 150,793,855, against 197,822,661 in 1949. States accounting for the largest dollar volume gain

EVERGREEN FARM NURSERY

Scotch Pine

French Green, Scotch Highland, East Anglia

	Per 100	Per 1000	Per 1000	Per 1000
(2-0), 2 to 4 ins.	\$3.00	\$11.00	\$10.00	\$ 8.00
(2-0), 3 to 6 ins.	3.50	16.00	15.00	12.50
(2-0), 4 to 8 ins.	4.00	20.00	18.00	15.00
(3-0), 7 to 14 ins.	4.50	21.00	20.00	17.50

Austrian Pine

(2-0), 3 to 6 ins.	3.50	13.00	12.00	....
(3-0), 4 to 10 ins.	4.50	20.00	18.00	....

SPECIAL OFFER:

French Green or East Anglia

(4-0), 10 to 20 ins., \$12.00 per 1000

No shipping. Sold at nursery only.

Write for Price List on:

Norway Spruce - Colorado Blue Spruce
Black Spruce - White Spruce - Douglas Fir
Seedlings and Transplants

Visitors Invited

Henry Beimfohr

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Fennville, Mich.

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Nursery located 1 mile north of intersection of M89 and U. S. 31 and 1/2 mile west on 126th Ave.

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*a new low cost
moisture provision
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● REPLACES CONVENTIONAL PACKING MA-
TERIALS ● REDUCES BULK AND WEIGHT . . .
MAKES FOR GREATER SAVINGS ● LEAVES
STOCK IN A MOIST, HEALTHIER CONDITION

RUTEX is a new, sprayable composition designed exclusively for the Nursery Industry. Use it for bare root shipping and you'll find that one quick spray or dip application before packing or loading will keep your plants in a healthier condition longer and more likely to survive until they reach their destination. And at lower cost.

Through effective moisture control, RUTEX eliminates the need for moss, peat, shingletow and other costly water-absorbent packing materials. By forming a transparent film over the roots of plants, RUTEX, with its sponge-like properties, holds just the right amount of moisture in contact with roots and maintains softness and flexibility.

Think of the advantages of using RUTEX for bare root shipping. For mail order or express packages, simply spray roots, or in some cases the entire plant with RUTEX, wrap in wax paper and complete the package. And for wholesale truck transportation, the job is easier. Merely spray each tier of roots during loading, and complete protection against dehydration is yours for the asking. RUTEX saves weight, cuts bulk and gives more space for bigger payload. Your savings should be impressive.

Make sure you've got an ample supply of RUTEX for your bare root shipping.

For samples and further information, just complete the coupon below and mail to:

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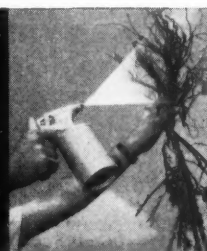
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LINING-OUT STOCK

38 years of growing and selling.
FIBROUS ROOTS — LIBERALLY GRADED — WELL-GROWN

ACER GINNALA

Does not only make a wonderful colorful shrub or tree but is ideal as a hedge.

Each Per 100 Per 1000
2-yr., S., 6 to 10 ins. \$0.09 \$0.07
2-yr., S., 10 to 15 ins. .11 .09

	Each 100 rate	Each 1000 rate
Berberis Crimson Pygmy (Dwarf Red Barberry)		
3-yr., 9 to 12 ins.	\$0.60	\$0.50
Buxus Inglis, a new hardy boxwood		
4-yr., 8 to 10 ins., bushy ....	.75	.70
Euonymus alatus		
3-yr., T., 10 to 12 ins. ....	.35	.30
Euonymus radicans vegetus		
2-yr., 10 to 15 ins., nice for canning ....	.50	.45
Hedera helix baltica (Baltic Ivy)		
2 1/4-in. rose pot ....	.25	.22
In flats ....	.18	.16
Juniperus chinensis hetzi		
1-yr., pot ....	.25	.22
2-yr., 6 to 10 ins. ....	.40	.35
Juniperus chinensis pfitzeriana		
1-yr., pot ....	.24	.22
2-yr., pot ....	.40	.35
Magnolia stellata		
8 to 12 ins., T., 4-in. pot ....	.80	.70
MALUS—1-yr., grafts		
Arnoldiana, pink ....	.35	.32
Atrosanguinea, pink ....	.35	.32
Dorothea, pink ....	.35	.32
Flame, white, red fruit ....	.35	.32
Marshall Oyama, upright ....	.40	.35
Micromalus, pink ....	.35	.32
Scheideckeri, pink ....	.35	.32
Picea pungens moerheimi		
Pot grafts	1.25	1.20
1-yr., grafts	1.85	1.75
Rhodotypos scandens (kerrioides)		
2-yr., 6 to 12 ins. ....	.10	.09
Taxus cuspidata		
2-yr., pot ....	.25	.22
3-yr., pot ....	.30	.28
4-yr., 10 to 12 ins. ....	.50	.45
5-yr., bushy, nice for canning ....	.55	.50

25 plants receive 100 rate; 250 at 1000 rate.
TERMS: 2% 10 days; 30 days net; 3% for cash with order.



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Nick I. W. Kriek — Harold E. Hicks

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Lansing 17, Mich.

Just west of city limits on U. S. 27.

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Write now for a copy of our new wholesale list which is ready for mailing. It lists a general assortment of shade trees, ornamentals, fruit trees, evergreens and many specialty items. Also a long list of large rooted cuttings ready for field planting and potted and bed-grown liners of many varieties.

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Growers of Lining-Out Stock
Taxus—Pyraeantha—Cotoneaster
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Send for complete list.
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Check our new fully descriptive catalog for the:
New Ivies and Ground Covers
All-America Mums at a new low price
New Hardy Azalea Martin's White
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Azaleas and broad-leaves for lining out
Read about these and many other different unusual plants. Just drop a card to:

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For the finest in

NURSERY-GROWN SEEDLINGS

Write—
Forrest Keeling
Nursery
Elsherry, Mo.
Hugh Stevenson, Prop.

MISSOURI
GROWN
IS HARDY...

and others with a significant increase are the following: Maine, \$94,682 to \$252,023; Michigan, \$81,156 to \$759,498; Nebraska, \$69,885 to \$111,707; North Dakota, \$44,896 to \$103,322; Pennsylvania, \$52,899 to \$1,167,674, and Tennessee, \$71,288 to \$240,710. Two states showing a drop in sales were Wisconsin, \$117,275 to \$63,931, and Kansas, \$68,632 to \$21,224.

Vines

In woody vines (not grapes), sales increased from \$724,549 to \$1,039,254, with 527 establishments reporting in 1959, against 937 in 1949. The number of plants sold in 1959 was 7,211,623, against 3,315,658 in 1949. States accounting for the largest dollar volume gain and others with a significant increase were as follows: California, \$106,635 to \$110,873; Florida, \$13,690 to \$66,194; Iowa, \$40,614 to \$85,056; New York, \$79,511 to \$126,807; Ohio, \$48,229 to \$90,826; Tennessee, \$21,572 to \$210,982, and Texas, \$20,169 to \$65,917. Noticeable declines in sales were found in Pennsylvania, \$54,281 to \$7,330, and Rhode Island, \$70,822 to \$3,460.

For all other ornamentals (palms, crotons, ground covers, etc.) sales increased from \$1,545,344 to \$5,579,435, with 858 establishments reporting in 1959. States accounting for the largest volume gain were as follows: California, \$445,591 to \$1,864,835, and Florida, \$628,000 to \$2,431,983.

Ornamental plants sold in containers in 1959 totaled 19,531,257, with 966 firms reporting. Those states selling the largest number of plants in 1959 were the following: Alabama, 1,011,276; California, 12,285,485; Florida, 1,918,751; Illinois, 707,848, and Texas, 950,504.

Lining-Out Stock

Under the category of lining-out stock (including budding and grafting stock), citrus stock sales increased from \$18,582 to \$177,057, with 42 establishments reporting in 1959, against 27 in 1949. The number of plants sold in 1959 was 2,043,415, against 208,344 in 1949. States accounting for the largest volume gain are the following: California, \$3,290 to \$96,805, and Florida, \$7,045 to \$57,777.

In deciduous fruit stock, sales increased from \$383,858 to \$512,442, with 51 establishments reporting in 1959 against 60 in 1949. The number of plants sold in 1959 was 18,799,870, against 14,029,193 in 1949. States accounting for the largest dollar volume gain were as fol-

SCHROTH'S NURSERY

SEEDLINGS

It pays to plant
The Best

Excellent Root
Systems, Hardy
ORDER NOW!

Grown at High Altitude—In the Heart of the Original Pine Forests
In Indiana County—The Capital of the Christmas Tree World

We grow and sell hundreds of thousands of evergreen seedlings each year. We have always been sold out before the first of April. We suggest that you order early for our seedlings.

PINE SEEDLINGS

SCOTCH PINE, French Auvergne			
	Per 100	Per 1000	
2-yr., 2 to 4 ins.....	\$ 2.00	\$ 7.50	
2-yr., 4 to 8 ins.....	3.50	22.50	
3-yr., 8 to 12 ins.....	4.50	30.00	
4-yr., 12 to 16 ins.....	8.00	50.00	

SCOTCH PINE, Spanish			
	Per 100	Per 1000	
2-yr., 2 to 4 ins.....	2.00	7.50	
2-yr., 4 to 8 ins.....	3.50	22.50	
3-yr., 8 to 12 ins.....	4.50	30.00	

The above strains are short needle and good color. These strains are among the best for Christmas trees.

SCOTCH PINE, German			
	Per 100	Per 1000	
3-yr., 8 to 12 ins.....	4.50	20.00	
3-yr., 12 to 18 ins.....	6.00	25.00	

SCOTCH PINE, Riga			
	Per 100	Per 1000	
2-yr., 2 to 4 ins.....	2.00	7.00	
2-yr., 4 to 8 ins.....	3.50	22.50	

The above two strains have approximately a 2-in. needle with proper branch angle. Also good for Christmas trees.

WHITE PINE			
	Per 100	Per 1000	
2-yr., 3 to 5 ins.....	3.00	15.00	
2-yr., 4 to 7 ins.....	4.00	25.00	
4-yr., 5 to 8 ins.....	5.00	30.00	
4-yr., 8 to 14 ins.....	7.00	40.00	

Soft needle, straight stem, fast growing. For Christmas trees, ornamentals, windbreak and timber.

AUSTRIAN PINE			
	Per 100	Per 1000	
2-yr., 2 to 4 ins.....	3.00	15.00	
2-yr., 4 to 8 ins.....	4.00	25.00	
3-yr., 7 to 9 ins.....	5.00	27.50	
3-yr., 9 to 12 ins.....	7.00	30.00	

Long needle. Used for highway planting, windbreaks, Christmas trees and ornamentals.

RED OR NORWAY PINE			
	Per 100	Per 1000	
3-yr., 3 to 5 ins.....	3.00	15.00	
3-yr., 5 to 10 ins.....	4.00	25.00	

A fine tree with long dark needles. Best for background or screen planting. Very easily grown in most types of soil.

PONDEROSA PINE			
	Per 100	Per 1000	
3-yr., 7 to 9 ins.....	2.00	15.00	
3-yr., 9 to 14 ins.....	4.00	20.00	

One of the longest needle pines and light in color. Colorado seed origin.

MUGHO PINE, Tyrolean			
	Per 100	Per 1000	
3-yr., 5 to 8 ins.....	3.00	22.50	

Dwarfest of Mugho Pines. Sheared and well budded.

SPRUCE SEEDLINGS

NORWAY SPRUCE			
	Per 100	Per 1000	
2-yr., 4 to 6 ins.....	\$ 3.00	\$15.00	
2-yr., 6 to 9 ins.....	4.00	20.00	
3-yr., 8 to 12 ins.....	5.00	25.00	
3-yr., 12 to 16 ins.....	6.00	35.00	
4-yr., 14 to 20 ins.....	10.00	40.00	

Our species of Norway Spruce is one of the best we know of. Very good for Christmas trees and timber. Has good color and fast grower.

BLACK SPRUCE, Mariana			
	Per 100	Per 1000	
2-yr., 5 to 7 ins.....	4.00	20.00	
3-yr., 7 to 12 ins.....	5.00	25.00	
3-yr., 12 to 14 ins.....	6.00	30.00	

Black Spruce has a finer needle, good color. Shapes compact with little attention.

WHITE SPRUCE			
	Per 100	Per 1000	
2-yr., 3 to 5 ins.....	3.00	15.00	
3-yr., 5 to 9 ins.....	5.00	20.00	
4-yr., 12 to 20 ins.....	8.00	30.00	

White Spruce requires very little shaping. Short needles and bluish-gray color. Good for ornamentals and one of the best for Christmas trees.

COLORADO BLUE SPRUCE			
	Per 100	Per 1000	
2-yr., 2 to 4 ins.....	2.00	15.00	
2-yr., 4 to 7 ins.....	4.50	25.00	
3-yr., 8 to 12 ins.....	6.00	30.00	
4-yr., 12 to 14 ins.....	15.00	100.00	

The old stand-by. Best for ornamentals, also used for Christmas trees. Our seed from collected blue trees. We have had comments from many growers recommending these seedlings for quality and color.

NO ENGELMANN SPRUCE THIS SEASON

CHESTNUT SEEDLINGS

CHESTNUT, Ching-Chow			
	Per 10	Per 100	Per 1000
1-yr., 10 to 18 ins.....	\$3.00	\$20.00	\$ 75.00
2-yr., 18 to 24 ins.....	4.00	30.00	100.00
2-yr., 24 to 36 ins.....	6.00	40.00	150.00

Blight-resistant. Chinese strain. Nearest to the native nut flavor.

NO TRANSPLANTS OF ANY SPECIES AVAILABLE

All stock offered subject to prior sale.

We guarantee all stock represented herein for size and quality, or your money will be cheerfully refunded. Because of many conditions beyond our control, such as delay in shipment, mishandling on arrival, etc., we cannot guarantee survival of seedlings.

ORNAMENTALS: We do not have any ornamentals of any kind or species, balled or bare root.

OUR SEEDLINGS are grown under natural conditions. It has not been necessary for us to force our growing through irrigation or watering of any kind. We endeavor to make our seedlings hardy and able to withstand drought. We do not raise them on beefsteak and expect our customers to grow them later on water and crackers.

QUANTITY DISCOUNT FURNISHED ON REQUEST

TERMS OF SALE: All prices are F.O.B. Indiana, Pa. Stock is shipped C.O.D. parcel post or by express. State preference when ordering. All orders must be accompanied by full payment or by 25% deposit with balance before shipment or C.O.D. or satisfactory credit reference.

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lows: Oregon, \$87,067 to \$191,889, and Washington, \$65,042 to \$185,812. There was a decrease in Iowa, from \$109,282 in 1949 to \$6,517 in 1959.

In deciduous trees and shrubs, sales increased from \$472,640 to \$1,686,128, with 255 establishments reporting in 1959, against 235 in 1949. The number of plants sold in 1959 was 27,116,610, against 11,805,921 in 1949. States accounting for the largest dollar volume gain and others with a significant increase are the following: Alabama, \$38,248 to \$203,328; Florida, \$1,936 to \$69,725; Kansas, \$4,856 to \$58,231; Missouri, \$8,521 to \$79,475; Pennsylvania, \$39,400 to \$233,479; Tennessee, \$106,381 to \$336,967, and Virginia, \$790 to \$139,630. There was a decrease in Illinois, from \$39,281 to \$12,500, and in Texas, from \$49,367 to \$3,460.

In evergreens, ornamental, sales increased from \$2,112,508 to \$5,064,969, with 559 establishments reporting in 1959, against 445 in 1949. The number of plants sold in 1959 was 34,176,716, against 15,328,243 in 1949. States accounting for the largest dollar volume gain and others with a significant increase are the following: Alabama, \$276,311 to \$673,255; California, \$265,635 to

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\$45.00 per 1000

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Perry, Ohio

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Norway Spruce, 3 to 7 ft.
White Pine, 3 to 9 ft.
Austrian Pine, 4 to 9 ft.
Scotch Pine, 3 to 9 ft.
Red Pine, 3 to 10 ft.
Norway Maple, 1½ to 3-in. cal.
Crimson King Maple, 1½ to 2-in. cal.
Flowering Crab Apples, 6 to 8 ft.
Sweet Gum, 1½ to 2-in. cal.

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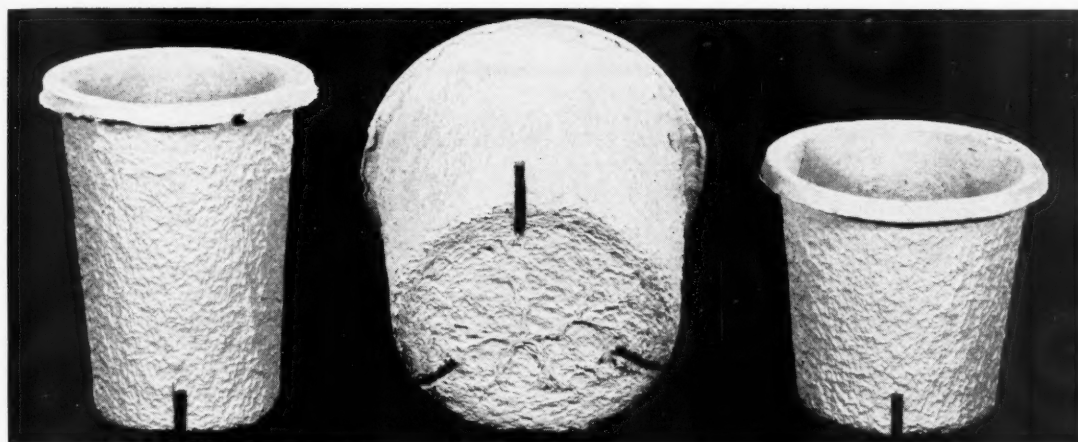


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Number	Inside Measure Dia.	Ht.	Number Per Ctn.	Per Ctn.	Per 1000	Number	Inside Measure Dia.	Ht.	Number Per Ctn.	Per Ctn.	Per 1000
535	4"	5"	150	\$7.50	\$ 45.00	9x9	9"	9"	30	\$4.20	\$125.00
4A	4 3/4"	5 1/4"	100	6.00	50.00	10x10	10 1/4"	9 5/8"	44	8.80	180.00
111T	5 1/2"	5 1/2"	50	3.00	52.50	11x12	11 1/2"	11"	15	4.50	280.00
281	5 1/4"	6 1/4"	24	1.68	60.00	12x13	12 1/2"	12 1/4"	14	4.90	325.00
7x11	7"	10 3/4"	42	5.46	110.00	13x14	13 1/2"	13"	12	5.28	400.00
7x9	7 1/2"	8 1/2"	55	5.50	85.00	536	7"	4 3/4"	50	4.50	65.00
8x8	8"	8"	56	5.60	85.00	538	8 3/4"	5 1/2"	50	5.25	90.00
681	8 1/2"	7 3/4"	24	2.88	110.00						



Jiffy-Pots® MADE OF PEAT

The pot with total root penetration. Early starts, no setback or shock. Ideal for bedding plants, vegetables, Carnations, Geraniums, Asters, foliage plants, Snaps and Nursery items. All get earlier start in Jiffies.

PRICES

Mod. No.	Top Diam. and shape	Depth of pot	Lbs. per Case	Pots per Case	Price per Case	EASTERN STATES* Price Per 1000 Pots		
						1-9 Cases	10-24 Cases	25 Up* Cases
115	1 1/2" Round	1 3/4"	17	3000	\$17.10	\$ 5.70	\$ 5.30	\$ 4.90
122	2 1/4" Round	2 1/4"	37	3000	22.50	7.50	7.00	6.50
222	2 1/4" Square	2 1/4"	37	2500	20.25	8.10	7.60	7.00
130	3" Round	3"	40	1000	15.50	13.30	12.30	11.30
230	3" Square	3"	37	1500	19.95	15.50	14.50	13.50
330	3 1/2" Shorty	2 1/2"	37	1500	19.50	13.00	12.00	11.00
335	3 1/2" Shorty	3"	40	1000	17.75	17.75	16.50	15.25
140	4" Round	4"	35	500	14.75	29.50	27.50	25.50
240	4" Square	4"	45	500	15.00	30.00	28.00	26.00
425	2 1/2" Rose	3 1/8"	35	2000	20.00	10.00	9.25	8.50
517	1 3/4" J. Strips	2"	35	3600	24.84	6.90	6.40	5.90

*WESTERN STATES: Add 5% to above prices on shipments into Ariz., Alaska, Calif., Hawaii, Idaho, Nev., Oreg., Utah, and Wash. Eastern prices apply to all other states.

**Additional quantity discounts from 25 case prices. Orders of: \$1500, 2%; \$3000, 3%; \$6000, 5%.

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MARKET-PAKS

No. 24 4 1/8x5 3/4x2 1/2 ins. Packed 250 per case. Minimum order 250. 17 lbs.

Quantity	Per 1000
250 to 750	\$31.00
1000 to 9,750	28.00
10,000 to 49,750	26.00
50,000 and Up	24.00

No. 28 5 1/8x5 1/2x2 3/4 ins. Packed 250 per case. Minimum order 250. 23 lbs.

Quantity	Per 1000
250 to 750	\$39.00
1000 to 9,750	35.00
10,000 to 49,750	33.00
50,000 and Up	30.00

No. 30 2 7/8x10 1/4x2 3/8 ins. Packed 200 per case. Minimum order 200. 17 lbs.

Quantity	Per 1000
200 to 800	\$41.00
1000 to 9,800	37.00
10,000 to 49,800	35.00
50,000 and Up	32.00

No. 42 5 1/2x7 1/2x2 3/8 ins. Packed 200 per case. Minimum order 200. 20 lbs.

Quantity	Per 1000
200 to 800	\$44.00
1000 to 9,800	40.00
10,000 to 49,800	38.00
50,000 and Up	35.00

No. 44 5 1/2x7 1/2x2 3/4 ins. This pak can best be described as a deep Market-Pak No. 42. Packed 200 per case. Minimum order 200. 23 lbs.

Quantity	Per 1000
200 to 800	\$49.00
1000 to 9,800	45.00
10,000 to 49,800	43.00
50,000 and Up	40.00

No. 60 6x10x2 3/8 ins. Packed 200 per case. Minimum order 200. 27 lbs.

Quantity	Per 1000
200 to 800	\$67.00
1000 to 9,800	61.00
10,000 to 49,800	57.00
50,000 and Up	53.00

Half Flat 10x12x2 3/8 ins. Packed 200 per case. Minimum order 200. 50 lbs.

Quantity	Per 1000
200 to 400	\$110.00
600 to 4,800	100.00
5,000 and Up	90.00

Sizes may be combined for minimum price. Orders for 150 lbs. or more shipped Prepaid.

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C. C. POLLWORTH COMPANY, 802 NORTH MARKET ST., MILWAUKEE 1, WIS.

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Juniper, Pfitzer, extra good
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Taxus cuspidata, small sizes
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Cornus rubra
Elm, Chinese
Crab Apple, Flowering
Locust, Honey (Moraine)
Magnolia
Maple, Crimson King, small sizes
Maple, Norway
Maple, Columnar
Maple, rubrum
Maple, schwedleri

Maple, Silver
Maple, Sugar
Oak, Pin, small sizes
Redbud
Sweet Gum, TT, once root-pruned
Willow, Thurlow
Almond, Pink
Barberry, Green
Barberry, Red
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All kinds of fruit trees, 1 and 2-yr.

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Bushy, 5-yr., 18 to 24-in. plants, \$65.00 per 100. Ideal for canning or growing on.

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CRATAEGUS PHAENOPYRUM

	Each
4 to 5 ft.	\$ 2.85
5 to 6 ft.	3.25
8 to 10 ft., heavy, B&B ..	12.00

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Dwarf Fruit Trees Espalier Trained Fruit Trees

For retail sales. Malling No. 11, VII and IX rootstock. Hardy, northern-grown 1-year and 2-year-old trees, guaranteed free from insect pests and plant disease. Send today for wholesale prices.



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PYRACANTHA COCCINEA LALANDI

Commonly known as Firethorn. Our stock is grown from heavily fruiting stocks. Shrubs carry huge clusters of holly-like berries all winter. One of the most desirable foundation shrubs in the trade.

Liners, 2-in. pots \$25.00 per 100;
 \$225.00 per 1000.
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\$663,391; Connecticut, \$69,965 to \$267,199; Florida, \$22,310 to \$297,731; Georgia, \$6,840 to \$117,739; Illinois, \$139,952 to \$157,026; Louisiana, \$16,798 to \$111,802; Michigan, \$39,105 to \$104,611; Nebraska, \$82,949 to \$122,414; New Jersey, \$172,622 to \$387,248; Ohio, \$64,160 to \$276,010; Oregon, \$92,421 to \$526,044; Tennessee, \$33,921 to \$214,064, and Wisconsin, \$79,945 to \$156,887. There was a decrease in Minnesota, from \$131,383 to \$57,238, and in Texas, from \$223,346 to \$77,865.

In rose stock there was a decrease in sales from \$335,480 to \$102,472, with 19 establishments reporting in 1959, against 92 in 1949. The number of plants sold in 1959 was 5,413,580 against 11,190,809 in 1949.

Apple Trees

Under the category of deciduous fruit and nut trees and grapevines, apple tree sales increased from \$1,243,560 to \$2,384,319, with 771 establishments reporting for 1959, against 1,039 in 1949. The number of trees sold in 1959 was 3,688,416 against 3,081,993 in 1949. States accounting for the largest dollar volume gain and others with a significant increase are as follows: California, \$25,759 to \$102,301; Iowa, \$106,329 to \$166,841; Michigan, \$43,325 to \$102,637; New York, \$124,682 to \$244,176; Oklahoma, \$6,116 to \$596,244; Oregon, \$28,876 to \$162,625; Tennessee, \$53,412 to \$186,090, and Washington, \$34,636 to \$167,558. There was a decrease in Missouri, from \$463,560 to \$25,167.

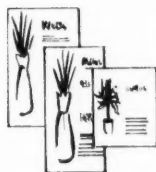
Cherry Trees

In cherry trees (sweet), sales increased from \$441,336 to \$576,225, with 445 establishments reporting in 1959, against 623 in 1949. The number of trees sold in 1959 was 782,989, against 671,716 in 1949. States accounting for the largest dollar volume gain and others with a significant increase were the following: California, \$24,920 to \$50,641; Illinois, \$1,866 to \$26,341; Michigan, \$30,901 to \$55,787; Oregon, \$46,540 to \$110,939; Tennessee, \$20,278 to \$51,046, and Washington, \$34,980 to \$52,244. There was a decrease in New York, from \$130,448 to \$96,617.

In cherry trees (sour), sales decreased from \$735,462 to \$600,073, with 435 establishments reporting in 1959, against 715 in 1949. The number of trees sold in 1959 was 913,077, a decrease from 1,357,657. Tennessee showed an increase from \$39,270 to \$93,540. Decreases are

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BARTLETT PEAR , 1 1/4-in. cal., 8 to 10 ft. — Reg. \$1.75	SPL. \$1.25
DWARF APPLE , 1 1/16-in. cal. — Reg. \$1.65	SPL. \$1.00
Red Delicious, Red Jonathan, Yellow Delicious, Yellow Transparent	
CHINESE CHESTNUT , 4 to 5 ft. — Reg. \$1.00	SPL. .50
LATHAM RED RASPBERRY , No. 1 — Reg. \$60.00 per 1000	SPL. per 1000 \$45.00
CHINESE ELM , 3-in. cal. and up — Reg. \$4.00	SPL. \$2.50
SYCAMORE , 1 1/4-in. cal. — Reg. \$1.60	SPL. \$1.25
FORSYTHIA FORTUNEI , 2 to 3 ft. — Reg. 25c	SPL. .20
PINK-FLOWERING ALMOND , 2 to 3 ft. — Reg. 55c	SPL. .35
AMUR RIVER PRIVET, SOUTH , 2 to 3 ft., transplants, Reg. 10c	SPL. .06

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- COOLING SHADE
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- HARDINESS

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Redmond Linden planted 7 years ago.

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	Per 10	Per 100
3-yr., 2 to 2 1/2-in. cal.	\$70.00	\$650.00
2-yr., 8 to 9 ft.	35.00	325.00
2-yr., 7 to 8 ft.	30.00	275.00
2-yr., 6 to 7 ft.	25.00	225.00
2-yr., 5 to 6 ft.	22.50	200.00

Terms: Per our published list.

shown by the following states: Iowa, \$114,686 to \$70,750; Michigan, \$127,957 to \$80,045; Missouri, \$87,581 to \$45,256; New York, \$138,332 to \$83,929, and Ohio, \$25,930 to \$7,398.

Nut Trees

In nut trees, sales increased from \$776,724 to \$2,078,146, with 336 establishments reporting in 1959. The number of trees sold in 1959 was 2,078,146, against 776,724 in 1949. States accounting for the largest dollar volume gain and others with a significant increase are the following: California, \$207,129 to \$744,506; Florida, \$85,678 to \$268,866; Mississippi, \$100,400 to \$181,125, and Texas, \$221,164 to \$372,752.

Peach Trees

In peach trees, sales increased from \$1,326,902 to \$2,602,996, with 674 establishments reporting in 1959, against 882 in 1949. The number of trees sold in 1959 was 6,530,265, against 4,707,263 in 1949. States accounting for the largest dollar volume gain and others with a significant increase are the following: California, \$296,611 to \$726,658; Illinois, \$4,428 to \$80,674; Maryland, \$40,404 to \$113,110; Michi-

[Continued on page 90]

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6 to 8 ins. long, heavily rooted, only
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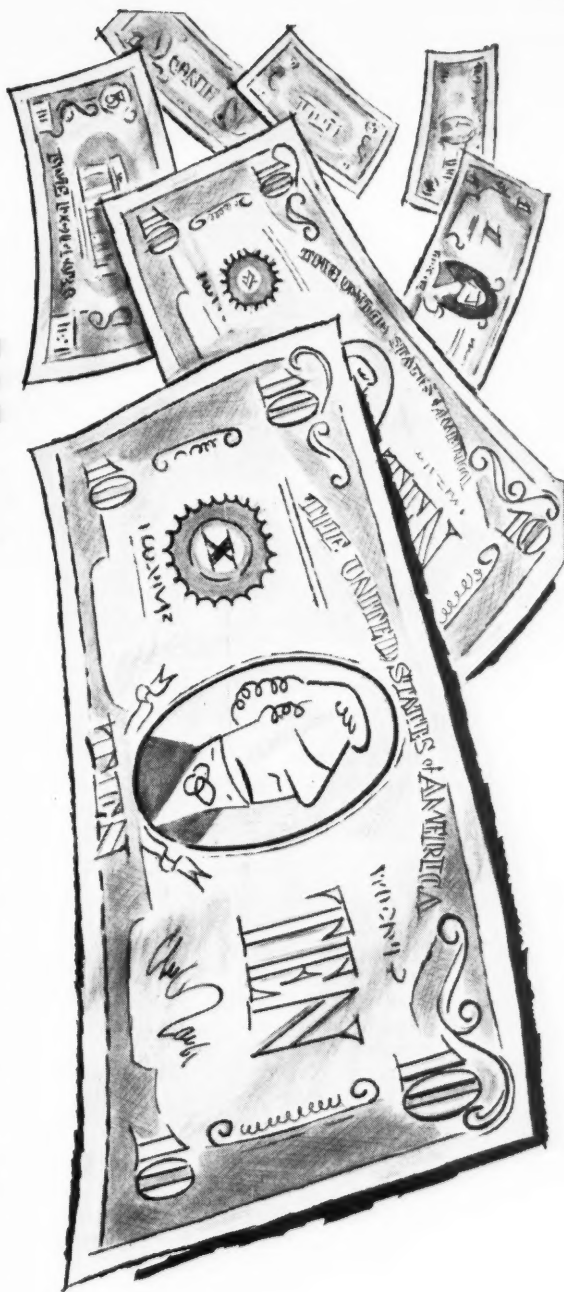
The pent-up pressure of many years of effective activity make **MERION** Kentucky Bluegrass sales for you. Newspaper ads in leading markets, national coverage through selected gardening magazines, a strong and continuous public relations program, informative brochures, in-store promotion materials . . . all these efforts build a constantly increasing consumer demand.

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QUANTITY		VARIETY	Reg. Price	Sale Price	QUANTITY		VARIETY	Reg. Price	Sale Price
2 1/4"	2 1/2" RP				2 1/4"	2 1/2" RP			
		CONIFERS							
	4,000	Juniperus chin. keteleeri	.25	.18		3,000	Koelreuteria integrifolia	.25	.15
	30,000	Pinus halepensis	.20	.12		2,000	Lagerstroemia dwf.		
	3,000	Thuja orientalis Rosedale	.25	.12			Lavender	.20	.15
		CAMELLIAS *(3" pots)			15,000		Ligustrum texanum	.18	.12
	*10,000	Camellia jap. Debutante	.35	.25	500		Ligustrum texanum vari.	.18	.12
	*3,000	Camellia jap. Mrs. Tingley	.35	.25	1,000		Lippia citriodora	.18	.12
		GENERAL ORNAMENTALS			300		Liriope spicata	.18	.12
	300	Acacia decora	.25	.15		1,500	Livistona chinensis	.30	.20
25,000		Acer palmatum	.18	.12	2,000		Lonicera jap. halliana	.16	.10
	200	Acer paxi	.25	.12	3,000		Lonicera jap. purpurea	.16	.10
1,000		Agave parryi	.25	.15	2,000		Lonicera pileata		
	750	Alnus glutinosa	.18	.10			yunnanensis	.18	.10
150		Althaea alba	.18	.12	300		Lonicera zabeli	.16	.10
	400	Aucuba jap. dwf. female	.22	.18	1,000		Mahonia bealei	.18	.12
400		Berberis thunbergi	.18	.10	2,000		Nerium Mrs. Roeding	.18	.10
4,000		Berberis thun. atropurpurea	.18	.10	1,000		Osmanthus americanus	.18	.12
2,000		Berberis triacanthophora	.20	.12	150		Osmanthus San Jose hybrid	.20	.12
	*3,000	Berberis triacan. *(3" pot)	.35	.20		500	Pachysandra terminalis	.20	.15
1,500		Bignonia tweediana	.20	.15	2,000		Philadelphus virginialis	.18	.12
500		Buddleia alternifolia	.18	.10	10,000		Prunus caroliniana	.16	.10
700		Buddleia charming	.18	.10	1,000		Prunus integrifolia	.20	.15
250		Buddleia curvifolia	.18	.10	1,000		Prunus laurocerasus		
2,000		Buddleia White Bouquet	.18	.10			zabeliana	.22	.18
2,000		Callistemon viminalis	.18	.12	2,000		Punica granatum nana	.18	.12
	150	Camphora officinarum	.20	.15	15,000		Pyracantha cocc. lalandi		
500		Cistus corbariensis	.18	.12			Monrovia	.18	.15
300		Corokia cotoneaster			20,000		Pyracantha crenata-serrata		
		(seedlings)	.25	.10			Graber	.18	.12
1,000		Cotoneaster dielsiana	.20	.10	6,000		Pyracantha Government Red	.18	.12
300		Cotoneaster zabeli	.18	.10	12,000		Pyracantha		
1,500		Deutzia gracilis	.18	.12			Rosedale (T.M.R.)	.18	.15
2,000		Echium fastuosum	.20	.15	4,000		Pyracantha Victory	.18	.12
2,000		Erica mediterranean				4,000	Quercus borealis	.25	.15
		maxima	.20	.15	2,000		Raphiolepis ovata	.18	.12
	15,000	Eriobotrya japonica	.18	.15	1,500		Rhododendron		
	6,000	Eucalyptus cinerea	.20	.15			fragrantissima	.20	.12
	500	Eucalyptus rudis	.18	.10	1,000		Rhynchospermum asiaticum	.20	.15
	300	Eucalyptus saligna	.18	.10	4,000		Rosa banksi white	.30	.20
	300	Eucalyptus viridis	.25	.15		8,000	Rosa Mermaid	.25	.18
	5,000	Euonymus fort. radicans			2,000		Rosa Oakington Ruby	.20	.15
		upright	.20	.10	3,000		Rosmarinus foresteri	.18	.12
	5,000	Euonymus jap. microphyllus	.20	.12		4,000	Sabal louisiana	.25	.15
	4,000	Euonymus jap. Silver Queen	.20	.12	2,500		Salix umbraculifera	.20	.10
		Eurya emarginata	.20	.15		150	Sapium sebiferum	.22	.18
1,000		Forsythia Beatrix Farrand	.22	.12	2,000		Sarcococca ruscifolia	.18	.15
1,000		Forsythia Lynwood Gold	.18	.12		1,000	Saxifraga sarmentosa	.22	.12
3,000		Forsythia Spring Glory	.18	.12	200		Schinus dependens	.22	.15
2,500		Fraxinus velutina	.18	.12	200		Schinus molle	.18	.12
	1,500	Gelsemium sempervirens	.18	.12		1,700	Spiraea Anthony Waterer	.18	.12
3,000		Hypericum hidcote	.18	.12	1,000		Spiraea van houttei	.18	.12
3,000		Ilex altaclarensis Wilsoni	.25	.15	1,500		Syringa persica laciniata	.18	.15
5,000		Ilex aquipernyi Brilliant	.25	.18	2,000		Teucrium chamaedrys	.16	.12
2,000		Ilex cornuta Azusa	.20	.15		1,000	Tipuana tipu	.18	.12
2,000		Ilex crenata convexa	.18	.12		500	Veronica buxifolia	.18	.12
2,000		Ilex crenata Green Thumb	.25	.18	2,000		Veronica prostrata	.18	.12
2,000		Ilex opaca East Palatka	.20	.12	10,000		Viburnum suspensum	.18	.12
300		Ilex opaca Howardi	.20	.12	400		Viburnum tomentosum		
2,000		Ilex opaca Mrs. Sarver	.20	.12			mariesi	.18	.12
4,000		Ilex pernyi	.20	.15	1,000		Vitex macrophylla	.18	.12
2,000		Jasminum polyanthum	.20	.12	2,000		Weigela rosea	.18	.12
					1,000		Weigela rosea variegata	.18	.12
					2,000		Weigela vaniceki	.18	.12

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		Agave attenuata	.25	.15
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200		Bamburanta arnoldiana	.22	.18
4,000		Bauhinia purpurea	.20	.15
		Beaucarnea recurvata	.25	.18
		Beloperone tomentosa	.18	.12
		Bignonia violacea	.20	.12
		Carissa Boxwood Beauty	.35	.20
		Cestrum parqui	.18	.10
4,000		Chorisia speciosa	.35	.25
		Cuphea hyssopifolia Red	.20	.15
15,000		Eriobotrya japonica	.18	.15
1,000		Eucalyptus globulus compacta	.18	.10
		Eugenia myrtifolia compacta	.20	.15
3,000		Feijoa sellowiana	.18	.12
		Ficus altissima	.20	.12
		Ficus benjamina	.20	.12

QUANTITY	2 1/2" RP	VARIETY	Reg. Price	Sale Price
2,000		Ficus nitida	.20	.12
4,000		Ficus repens	.18	.12
4,000		Ficus retusa	.25	.12
500		Ficus waipahu	.20	.12
1,500		Hedera canariensis	.16	.12
5,000		Leptospermum Ruby Glow	.20	.12
	1,000	Libocedrus decurrens	.20	
	1,000	Lysiloma thornberi	.20	.18
2,500		Moraea iridiodes	.18	.12
3,000		Murraea paniculata	.20	.15
2,000		Phormium colensoi	.25	.12
5,000		Phormium tenax	.18	.10
2,000		Phormium tenax atropurpureum	.25	.15
		Rosa Rouletti	.20	.12
2,000		Sabal blackburniana	.25	.18
	500	Sabal palmetto	.25	.18
5,000		Setcreasea purpurea	.16	.10



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<i>Taxus cuspidata capitata</i> (Upright Yew), seed-grown			
X, 10 to 14 ins.	\$30.00		
X, 6 to 10 ins.	22.50	\$165.00	\$150.00
(3-0), 4 to 8 ins.	9.00	75.00	65.00
<i>Taxus</i> , 3-yr., T.			
Media hickai, 10 to 12 ins.	45.00	400.00	
Media browni, 6 to 8 ins.	45.00	400.00	
Densiformis, 6 to 8 ins.	45.00	400.00	
Pfitzer Juniper			
X, 8 to 10 ins.	35.00		
Colorado Blue Spruce			
XX, 10 to 15 ins.	65.00	600.00	
X, 10 to 14 ins.	18.00	135.00	125.00
X, 6 to 10 ins.	12.00	90.00	85.00
(3-1), 6 to 12 ins.	10.00	65.00	60.00
(3-0), 3 to 6 ins.	6.00	24.00	22.00
(3-0), 6 to 10 ins.	7.50	32.00	30.00
White Spruce			
(3-0), 6 to 10 ins.	7.00	30.00	28.00
Black Hills Spruce			
(3-1), 5 to 10 ins.	10.00	60.00	
(3-0), 3 to 6 ins.	6.00	24.00	22.00
(3-0), 6 to 10 ins.	7.00	30.00	28.00
Norway Spruce			
X, 8 to 12 ins.	12.00	90.00	85.00
(3-1), 6 to 12 ins.	10.00	65.00	60.00
(3-0), 3 to 6 ins.	6.00	24.00	22.00
(3-0), 6 to 10 ins.	7.00	30.00	28.00
Ponderosa Pine			
X, 12 to 15 ins.	10.00	60.00	
X, 8 to 12 ins.	8.00	45.00	40.00
Austrian Pine			
X, 10 to 15 ins.	10.00	55.00	
X, 6 to 10 ins.	8.00	40.00	36.00
Scotch Pine, Auvergne			
XX, 15 to 18 ins.	40.00		
(2-1), 3 to 6 ins.	8.00	32.00	28.00
(3-0), 10 to 16 ins.	6.00	26.00	22.00
(3-0), 6 to 16 ins.	6.00	23.00	19.00
(3-0), 6 to 10 ins.	6.00	20.00	16.00
Douglas Fir (<i>Taxifolia glauca</i>)			
(2-1), 5 to 10 ins.	8.00	35.00	32.50
(3-0), 8 to 12 ins.	8.00	35.00	32.50
(3-0), 4 to 12 ins.	7.00	30.00	27.50
(3-0), 4 to 8 ins.	6.00	27.50	25.00

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gan, \$99,597 to \$198,020, and Tennessee, \$71,717 to \$435,667. There was a decrease in Missouri, from \$248,049 to \$149,963, and in Texas, from \$77,980 to \$36,502.

Pears

In pear trees, sales increased from \$471,765 to \$1,052,710, with 668 establishments reporting in 1959, against 901 in 1949. The number of trees sold in 1959 was 1,620,054, against 1,029,222 in 1949. States accounting for the largest dollar volume gain and others with a significant increase are the following: California, \$51,022 to \$222,660; Michigan, \$25,499 to \$66,493; New York, \$64,744 to \$88,339; Oregon, \$29,002 to \$126,677, and Washington, \$11,497 to \$139,625.

Plums and Prunes

In plum and prune trees, sales increased from \$484,096 to \$887,908, with 542 establishments reporting in 1959, against 816 in 1949. The number of trees sold in 1959 was 1,553,192, against 1,140,443 in 1949. States accounting for the largest gain in dollar volume were California, \$105,391 to \$389,868, and Oregon, \$23,944 to \$116,893. There was a decrease in Missouri from \$58,027 to \$6,890.

The inventory of plants in the foregoing category of fruit and nut trees, not including grapevines, as of January 1, 1960, was 27,413,826.

Grapevines

In grapevines, sales increased from \$353,806 to \$710,275, with 422 establishments reporting in 1959, as against 721 in 1949. The number of plants sold in 1959 was 10,061,554, as against 5,953,589 in 1949. States accounting for the largest dollar volume gain were the following: California, \$94,680 to \$368,748, and New York, \$79,729 to \$165,297. The inventory of grapevines as of January 1, 1960, was 12,205,160.

All other deciduous fruit and nut trees had sales that advanced from \$286,997 to \$484,227, with 134 establishments reporting in the 1959 census.

Citrus and Subtropical Fruits

Under the category of citrus and subtropical fruit trees, avocado sales increased from \$278,908 to \$280,558, with 128 establishments reporting in 1959 as against 180 in 1949. The number of trees sold in 1959 was 137,654, against 169,968 in 1949.

In grapefruit, sales volume increased from \$314,452 to \$582,131, with 267 establishments reporting in



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1959 as against 301 in 1949. The number of plants sold in 1959 was 375,786 as against 302,532 in 1949.

In lemons, sales volume increased from \$189,264 to \$433,408, with 237 establishments reporting in 1959 as against 276 in 1949. The number of trees sold in 1959 was 248,183 as against 176,393 in 1949.

In oranges, sales volume increased from \$712,969 to \$5,572,678, with 551 establishments reporting in 1959. The number of trees sold in 1959 was 3,561,002 as against 698,507 in 1949.

In all other citrus and subtropical fruit trees, sales volume increased from \$299,811 to \$562,674, with 186 establishments reporting.

Small Fruits

Under the category of small fruit plants, blueberry sales decreased from \$216,793 to \$196,463, with 117 establishments reporting in 1959, against 209 in 1949. Michigan, the largest producer, had a drop in sales volume from \$83,768 to \$65,169, and New Jersey sales dropped from \$56,034 to \$54,977.

In raspberries, sales decreased from \$442,338 to \$233,075, with 168 establishments reporting in 1959 as against 463 in 1949. Michigan, the largest producer, had a drop in sales from \$102,173 to \$92,013; Minnesota sales dropped from \$150,778 to \$6,159. New York sales increased from \$42,864 to \$85,147.

In strawberries, sales increased from \$1,579,959 to \$3,514,696, with 330 establishments reporting in 1959, against 633 in 1949. The number of plants sold in 1959 was 293,292,365, against 166,652,845 in 1949. States accounting for the largest dollar volume gain are the following: Arkansas, \$20,685 to \$106,245; California, \$93,953 to \$1,409,540; Delaware, \$150,000 to \$268,959; Indiana, \$119,414 to \$259,001; Maryland, \$212,389 to \$363,873; Michigan, \$170,768 to \$195,202; Montana, \$14,887 to \$103,373, and Washington, \$54,621 to \$372,655. In Iowa, the sales volume dropped from \$137,978 to \$56,011; in Oregon from \$221,314 to \$186,170, and in Tennessee the drop was from \$154,741 to \$7,022.

All other small fruit plants had sales that declined, from \$277,074 to \$95,330, with 49 firms reporting in 1959.

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	Per 100	Per 1000
Abelia grandiflora (Glossy Abelia) Glossy foliage, flowers whitish-pink. 12 to 24 ins., once transplanted	\$ 20.00	\$180.00
Abies balsamea (Balsam Fir) Symmetrical, deep green, aromatic. 6 to 12 ins., not transplanted	11.00	99.00
Abies lasiocarpa (Alpine Fir) Slender picturesque conifer. 6 to 9 ins., once transplanted	13.00	117.00
Abies veitchii (Veitch Fir) Charming native from Japan. 6 to 9 ins., not transplanted	10.00	90.00
Abies nobilis (Noble Fir) Blue-green, stately and magnificent. 1 to 6 ins., not transplanted	10.00	90.00
Berberis triacanthophora (Three-Spined Barberry) Slender, arching branches. 12 to 18 ins., once transplanted	30.00	270.00
Chamaecyparis lawsoniana fletcheri (Fletcher Cypress) Slender conifer, soft plume foliage. 9 to 12 ins., once transplanted	24.00	216.00
Chamaecyparis lawsoniana grandis Dense, low, flat pyramid. 6 to 9 ins., once transplanted	20.00	180.00
Chamaecyparis lawsoniana minima glauca (Little Blue Cypress) Blue-green captivating midget. 6 to 9 ins., twice transplanted, specimens, B.R.	71.00	....
Chamaecyparis pisifera compacta Dense, bright green, striking, dwarf globe. 3 to 6 ins., once transplanted	17.00	153.00
Chamaecyparis pisifera compacta nana Extraordinary, globe-shaped dwarf. 6 to 9 ins., twice transplanted, B.R.	71.00	....
Chamaecyparis pisifera filifera nana aurea (Dwarf Golden Thread Cypress) A compact mass of golden filaments. 12 to 18 ins., twice transplanted, B.R.	30.00	270.00

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That about half, or forty, of the world's pines are found in North America.

Cotoneaster horizontalis (Rock Cotoneaster) Red berries, low-growing favorite. 12 to 18 ins., once transplanted	18.00	162.00
Cotoneaster pannosa (Silver-leaved Cotoneaster) Silvery foliage, brilliant red berries. 2 to 3 ft., once transplanted, B.R.	30.00	270.00
Cotoneaster salicifolia (Willow-leaved Cotoneaster) Upright growing, bright red berries. 12 to 24 ins., once transplanted, B.R.	25.00	225.00
Cytisus praecox (Warminster Broom) Graceful shrub, flowers rich cream. 18 to 30 ins., once transplanted	24.00	216.00

	Per 100	Per 1000
Cytisus scoparius Burkwood Dark red flowers. 2 to 3 ft., once transplanted, B.R.	\$ 25.00	\$225.00
Cytisus scoparius Geoffrey Skipwith A multitude of pink flowers. 2 to 3 ft., once transplanted, B.R.	25.00	225.00
Cytisus scoparius Mixed Hybrids Spectacular array of vivid colors. 2 to 3 ft., once transplanted, B.R.	21.00	189.00
Daphne mezereum rubra (Red February Daphne) Delightfully fragrant, lilac-purple flowers. 1 to 3 ins., not transplanted	11.00	99.00
Erica carnea (Sherwood Creeping Heath) Low creeper. Flowers bright carmine-red. 9 to 12 ins., twice transplanted, B.R.	22.00	198.00
Erica mediterranea hybrida (Darley Heath) Purplish flowers often in the snow. 9 to 12 ins., twice transplanted, B.R.	22.00	198.00

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Euonymus radicans (Winter Creeper) Low, procumbent shrub, rich green foliage. 12 to 24 ins., once transplanted	22.00	198.00
Hedera helix , a cut-leaved form Deeply serrated leaves, aristocratic. 2-yr., once transplanted	11.00	99.00
Kalmia latifolia (Mountain Laurel) Compact shrub, bouquets of lovely flowers. 9 to 12 ins., once transplanted	25.00	225.00
Mahonia aquifolium (Oregon Grape) An ornate little evergreen shrub. 3 to 6 ins., not transplanted	8.00	72.00
Picea excelsa (Norway Spruce) Defies the blast in cold, exposed situations. 12 to 18 ins., once transplanted, B.R.	14.00	126.00
Picea excelsa nidiformis (Nest Spruce) Wonderful, dwarf, dark green, flattened globe. 3 to 6 ins., once transplanted	18.00	162.00
Picea glauca densata (Black Hills Spruce) Handsome, hardy tree. 6 to 12 ins., once transplanted	14.00	126.00
Picea pungens (Colorado Green Spruce) One of the most desirable of the spruces. 9 to 12 ins., once transplanted	15.00	135.00
Pinus aristata (Bristlecone Pine) Finest landscape conifer in existence. 6 to 9 ins., not transplanted	24.00	198.00
Taxus baccata fastigiata aurea (Golden Irish Yew) Magnificent gold column. 15 to 18 ins., twice transplanted, B. R.	122.00	....
Thuja occidentalis (George Washington Arborvitae) Spectacular golden form. 9 to 12 ins., once transplanted	24.00	216.00
Vaccinium ovatum (Evergreen Huckleberry) Evergreen shrub of surpassing merit. 6 to 9 ins., once transplanted	20.00	180.00

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PLANT NOTES HERE AND THERE

By C. W. Wood

African Valerian

My opinion of the ideal neighborhood nurseryman is one not bent on making a million dollars, but rather one who tries to make a million friends while making a modest living. Of the latter, I found one many years ago who, while making a living for himself and wife, was also making a host of friends and having a good time doing it. Among the interesting plants he grew was *Fedia cornucopiae*, the African valerian. Actually, I had sent him a few seeds of it a few years before and was then witnessing the fruits of that small gift. On returning home, I wrote the note which I now use with a few minor alterations.

The valerian family is not generally noted for great ornamental value, nor for noteworthy contributions to the list of economic plants. In the latter class, corn salad, *Valerianella locusta olitoria*, is sometimes grown as a salad plant, and, less frequently, *patrinia* is used as a pot herb. Although that is not a complete list of the economic valerians and their cousins, and a complete list is not meant, I should like to make a few remarks about the one mentioned in the first paragraph, *Fedia cornucopiae*, or African valerian, used by the natives of northern Africa as a salad plant and by some European gardeners in the same role.

According to "Hortus," *Fedia* is a genus of the valerian family composed of one species, *F. cornucopiae*, "an annual herb native in the Mediterranean regions and occasionally grown in the flower garden or as a salad plant." Seeds planted here in the open garden in late May produce blooming plants by midsummer, when their rosy-purple heads are overshadowed by the more brilliant flowers of that season. But when severe frosts have stopped the performance of most annuals in the garden, *fedia* shows its worth, both in the garden and as a table decoration. For instance, I found the following note in my garden diary for 1939: "This year, on December 6, six weeks after the last snapdragon and cornflower had been cut, *fedia* gave us several bouquets."

Hyacinthus Ciliatus

When I first began to think about hyacinths for this note, it was in my

mind to cover the subject as completely as my limited knowledge of the subject would permit, but when I got into the subject and saw how confused the changing of the names from time to time had made everything, I decided to restrict the remarks to *Hyacinthus azureus*. Then I found that its name had been changed to *H. ciliatus*, and I was almost discouraged enough to abandon the entire subject, but finally decided that the plant, under whatever name the powers that be inflict upon it, is too lovely and too useful to be ignored.

My first acquaintance with the plant was in my young days on a Cincinnati estate, where it and the lovely little Roman hyacinths had

been planted in the sparse turf of an open woodland. There must have been thousands of them at the time, making an unforgettable sight. My first personal experience with it was about 25 years ago; I had ordered a few packets of it from the late Reverend Anderson, of England, and had planted the seeds in a frame in a corner of the frame yard, which was soon allowed to become a mat of grass. One spring it was decided to add the area to the lawn, and mowing commenced at the usual time, but when the hyacinth spot was reached, it was a carpet of blue, the first time anyone had noticed there was a single hyacinth there.

On the aesthetic side, I find several reasons why the plant should be in

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George Oki—right in photo above



Owen Blackwell, Semmes, Alabama, left. This Azalea Red Wing that Owen is holding was carried in a cold frame from August to February and then benched in peat moss beds in the plastic house. Owen says, "All of our Azaleas will be handled in Jiffy-Pots because we can grow a larger plant in less time."



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every garden, where the first flowers of spring are welcomed. In fact, its habit of blooming soon after the passing of winter's snow is one reason that would endear it to gardeners, especially northern gardeners, even if it lacked most of the beauty that it does offer.

It looks, as someone has said, like a small edition of the common grape hyacinth, muscari; yet, on examination, it is entirely different, not only in make-up, which Farrer pointed out so plainly when he said "that wide-open mouth which is the one, the final differentiation between hyacinth, the open-lipped and smiling, and muscari, of the dark face and puckered lips and constricted pinched expression of a bell," but also in its general garden effects. The effects possible from it cannot be conveyed by saying that its open-lipped, blue bells are borne on 3-inch scapes. It must be planted liberally in a sunny spot (the books are quite right when they say it will not thrive in shade, as scillas will, but they neglect to say that they will do well in the light shade of an open woodland) in well-drained soil.

The books are not entirely right, though, when they say that it will not thrive in grass, for mine have not only bloomed well for a quarter of a century, but they have multiplied in their immediate vicinity and have self-sown for 10 feet around the original planting, and all that in a dense quack grass sod. It seems to me that the neighborhood grower could sell it in dozen and hundred lots, rather than in single bulb orders, if he showed it off in his display garden.

Polygala Vayrediae

When I first received an inquiry from a South Carolina reader on the Pyrenee milk wort, *Polygala vayrediae*, I was inclined to think that I never had seen it, but examination of the notebooks showed that it was in a large box of plants received from a Florida friend in 1932. They came late in the fall after all the protected frames and the sash house were full of questionably hardy material; so I took many of them, including the milk wort, to a friend in another northern Michigan town for safe-keeping. Only a few, including the milk wort, came through the first winter, and these were allowed to bloom there in the frame. I find the following note made in the fall of 1933, based on the behavior of that one year:

"*Polygala vayrediae* behaved splendidly in a sunny frame, spreading its pretty, glossy leaves, narrow

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and sharply pointed, on quite prostrate growths to a foot, or so, in width and three or four inches tall. Its butterflylike flowers of bright crimson (not purplish as some of the books have it) with yellow keels are freely produced and are showy and attractive."

It does not again appear in the notes; so I think that it did not come through the following winter, although I do not now recall any more about it. As a consequence, I know nothing about its culture, except the little that appears in the available literature. And that little includes "a moderately rich soil and a sunny aspect." It may be propagated from cuttings "in spring, over heat" and "by division either in early spring or directly after flowering."

Some New Perennials

Hardy asters being one of my favorite flowers, I have been interested and enthused by *Aster farreri* Berggarten during the past two years in an Ohio nursery. As I remember the type's behavior in my trials some 30 years ago, I lost it on several occasions, presumably because of lack of hardiness, but of that I never could be sure. In any event, the present form appears to be entirely hardy along the south shore of Lake Erie. And that means it is something to be reckoned with as a summer bloomer.

According to notes made in the nursery, it grows about 18 or 20 inches tall, producing light blue (lilac-blue I believe the nurseryman calls it) daisies, commencing in the early part of June and lasting into late summer. I saw it August 10, when it was a mass of color. It is apparently easy of cultivation, asking for no more than ordinary care. This adds up to a good garden plant and a splendid cut flower, and that tells me it would be a good property for the neighborhood grower to have.

Another daisylike flower that I especially like is *Chrysanthemum*

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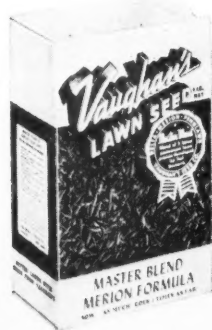
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5-lb. bag	9.00	Bale 10/5 lb.	\$4.50	100-lb. bag	160.00	Bag 1/100 lb.	104.00
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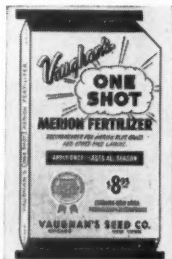
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rubellum. My fondness for it may stem somewhat from the fact that I introduced it to American gardeners some 30 years ago, but its great beauty and usefulness would endear it to any gardener. The type needs no introduction to American Nurseryman readers, but I believe that at least two recent introductions, Jessie Cooper and Royal Command, would be revelations to the most confirmed rubellum addict.

The first of these is a compelling object in the garden—a clump to three feet in height and at maturity that much across, with big coppery-bronze daisies set off with deep yellow centers. Royal Command is a wine-red beauty of 2-foot stature, the individual flowers to three inches across.

Looking for a dark-colored phlox? Then watch for Russian Violet, a new variety that seems to have about everything. It is a deep violet purple, unlike anything in phlox that was ever seen before. Violet purple is as near as I can come to it, but that does not exactly fit. Perhaps the best advice is for one to see it for himself, for there is no way that I can convey the charm of the sheen carried by the flowers. It has good foliage and good-size flower heads and blooms profusely.

Goldenrods, with which America is especially blessed, are little known in this country. The reason for this neglect, as I was told by many gardeners when I was preparing a feature story on them last fall for an amateur garden magazine, is that there are so many weeds in the genus that inexperienced gardeners think they are all weedy. Although I have tried to keep up with the news of new kinds as they have been introduced in Europe, mainly in Germany and England, during recent years, I was not prepared for the progress reported in a letter from a friend in the famous Perry Nursery, in England. Included in the lot was one, Primrose Cascade, which I understand is to be given its premiere in this country this year.

I take from the introducer's de-

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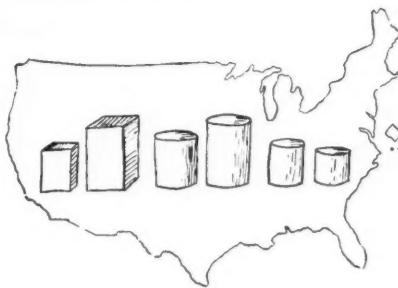
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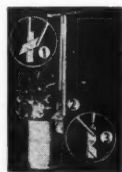
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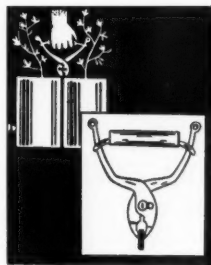


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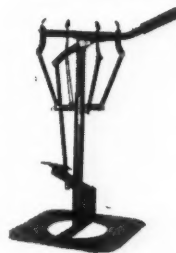
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scription: Stems to 20 inches in height, ending in a large head of soft primrose yellow, for more than two months, commencing at mid-August. I believe that named varieties of goldenrod will see much more popularity in America during the next decade.

It has been on my mind for some time to speak up on laced pinks from seeds as an item for the neighborhood grower. There is no denying the fact that these old-time pinks in named varieties are generally good sellers, but I seldom see seedlings offered.

Of course, there are obvious disadvantages in selling seed-grown plants, because one has to wait until the plants bloom before offering them if doubles or semidoubles are to be guaranteed.

In the best strain that I have tested, about 50 per cent came double and semidouble, the balance being singles or unlaced. That makes a rather heavy loss of plants unless one has a market for the singles, and that should not be difficult of accomplishment, for most of the flowers are lovely enough to intrigue most gardeners. In addition to all their other good points, at least two of the strains tested here have a spring-to-fall blooming season. If one lives in the north, I think he is well advised when told to stay away from strains that have a strong mixture of the florists' carnations in their veins, for they have shown themselves tender to northern Michigan winters; on the other hand, those bred from the old-time laced varieties, presumably mostly *Dianthus plumarius*, have been fully hardy in my trials. In the opinion of this observer, laced pinks grown from seeds offer a definite challenge and opportunity to the neighborhood grower.

I do not take space here to praise the All-America chrysanthemums, for they receive all the praise they need elsewhere, but do not let all their publicity blind one to the virtues of other chrysanthemum introductions. For instance, he would be doing himself and his customers a

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	100	1000		100	1000		100	1000
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Abies concolor (Concolor Fir)			Illex crenata hetzli,			Pyracantha cocc. lalandi (Fire Thorn)		
4 to 6 ins., 4-yr., T.	\$0.30		large glossy leaf	\$0.30	\$0.28	4 to 6 ins., 2-yr., T.	\$0.28	\$0.25
6 to 8 ins., 5-yr., T. ....	.35	.25	8 to 10 ins., 2-yr., T. ....	.40	.38	6 to 8 ins., 2-yr., T. ....	.32	.30
10 to 15 ins., 5-yr., T. ....	.45	.38	10 to 12 ins., 3-yr., T. ....	.45	.42	8 to 10 ins., 2-yr., T. ....	.38	.35
Azalea kaempferi (Flame Azalea)			12 to 15 ins., 4-yr., T. ....	.60	.55	10 to 12 ins., 3-yr., T. ....	.40	.38
3 to 6 ins., 2-yr., T. ....	.25	.22	Illex crenata helleri , very dwarf			Quercus palustris (Pin Oak)		
6 to 8 ins., 3-yr., T. ....	.30	.28	4 to 6 ins., 3-yr., T. ....	.38	...	4 to 6 ins., 1-yr., S. ....	.10	.08
Azalea Ghent Hybrid , mixed pastels			6 to 8 ins., 4-yr., T. ....	.45	...	Rhododendron Hybrid ,		
2 to 4 ins., 2-yr., T. ....	.20	.18	8 to 10 ins., 4-yr., T. ....	.75	...	seed; from red stock.		
4 to 6 ins., 2-yr., T. ....	.25	.22	10 to 12 ins., 5-yr., T. ....	.90	...	3 to 5 ins., 3-yr., T. ....	.35	.32
Azalea mollis (Chinese Azalea)			Illex rotundifolia (Round-leaved Holly)			4 to 6 ins., 4-yr., T. ....	.45	.42
2 to 4 ins., 2-yr., T. ....	.12	.10	8 to 10 ins., 2-yr., T. ....	.35	.30	5 to 8 ins., 4-yr., T. ....	.55	.48
3 to 5 ins., 3-yr., T. ....	.20	.18	10 to 12 ins., 3-yr., T. ....	.40	.35	Scotch Pine (Pinus sylvestris)		
5 to 8 ins., 3-yr., T., field...	.25	.22	12 to 15 ins., 4-yr., T. ....	.50	.45	8 to 14 ins., 4-yr., T. ....	.15	.05
Azalea mucronulatum , lavender			12 to 15 ins., 5-yr., T., heavy	.65	.60	10 to 15 ins., 4-yr., T. ....	.15	.06
1 to 3 ins., 1-yr., T. ....	.25	.20	15 to 18 ins., 6-yr., T., field.	1.00	.90	(Order minimum, 500 at 1000 rate.)		
4 to 6 ins., 2-yr., T. ....	.30	.25	Juniper Andorra (Purple Andorra)			Taxus capitata (Upright Jap. Yew)		
6 to 8 ins., 3-yr., T. ....	.35	.30	4 to 6 ins., 1-yr., T. ....	.22	.20	Seedlings		
Azalea poukhanensis			6 to 8 ins., 1-yr., T. ....	.28	.25	2 to 3 ins., 2-yr., S. ....	.05	.04
2 to 3 ins., 2-yr., T. ....	.22	.20	8 to 10 ins., 3-yr., T. ....	.40	.38	3 to 4 ins., 3-yr., S. ....	.07	.06
3 to 4 ins., 3-yr., T. ....	.30	.28	Juniper canadensis aurea			4 to 6 ins., 3-yr., S. ....	.09	.07
Azalea schlippenbachii (Royal Azalea)			(Golden Canadian Juniper)			6 to 8 ins., 4-yr., S. ....	.15	.12
1-yr., T., bedded	.18	.15	4 to 6 ins., 2-yr., T. ....	.25	...	8 to 10 ins., 4-yr., S. ....	.18	.16
2 to 3 ins., 2-yr., T. ....	.22	.20	Juniper glauca hetzli (Hetz Juniper)			10 to 12 ins., 4-yr., S. ....	.22	.19
3 to 6 ins., 3-yr., T. ....	.30	.28	4 to 6 ins., 2-yr., T. ....	.20	.18	Taxus capitata (Upright Jap. Yew)		
Buxus sempervirens welleri			6 to 10 ins., 2-yr., T. ....	.25	.22	Transplants		
(Weller's Hardy Boxwood)			8 to 12 ins., 2-yr., T. ....	.32	.28	4 to 6 ins., 3-yr., T. ....	.28	.25
4 to 6 ins., 2-yr., T. ....	.25	.22	10 to 15 ins., 2-yr., T. ....	.35	.30	6 to 8 ins., 3-yr., T. ....	.30	.25
6 to 8 ins., 3-yr., T. ....	.30	.28	12 to 15 ins., 3-yr., T., etbk.	.45	.42	8 to 10 ins., 3-yr., T. ....	.35	.32
8 to 10 ins., 3-yr., T. ....	.35	.32	12 to 18 ins., 4-yr., T., etbk.	.55	.50	8 to 15 ins., 3-yr., T., etbk.	.45	.40
10 to 12 ins., 3-yr., T. ....	.40	.38	Juniper hibernica fastigiata			10 to 12 ins., 6-yr., T., etbk.	.75	.65
12 to 15 ins., 4-yr., T. ....	.50	.45	(Compact Irish Juniper)			12 to 15 ins., 6-yr., T., etbk.	.90	.80
Chamaecyparis filifera aurea			4 to 8 ins., 2-yr., T. ....	.20	.18	Taxus cuspidata (Spreading Yew)		
(Golden Thread Cypress)			8 to 10 ins., 2-yr., T. ....	.25	.22	4 to 6 ins., 2-yr., T., beds.	.20	.18
3 to 4 ins., 2-yr., T. ....	.25	.22	10 to 12 ins., 2-yr., T. ....	.35	.30	6 to 8 ins., 2-yr., T., beds.	.25	.22
4 to 6 ins., 2-yr., T. ....	.28	.25	12 to 15 ins., 3-yr., T. ....	.45	.40	8 to 10 ins., 2-yr., T., beds.	.30	.28
Chamaecyparis lawsoniana alumi			Juniper horizontalis glauca			10 to 12 ins., 3-yr., T., etbk.	.45	.40
(Blue Cypress)			6 to 8 ins., 2-yr., T. ....	.35	.32	10 to 15 ins., 4-yr., T., fld...	.65	.55
4 to 6 ins., 2-yr., T. ....	.22	.18	8 to 10 ins., 2-yr., T. ....	.40	.38	Taxus media brownii		
6 to 10 ins., 2-yr., T. ....	.30	.28	10 to 15 ins., 3-yr., T. ....	.50	.45	4 to 6 ins., 2-yr., T., beds.	.22	.20
10 to 12 ins., 3-yr., T. ....	.45	.40	Juniper chinensis pfitzeriana			6 to 8 ins., 2-yr., T., beds.	.28	.25
12 to 15 ins., 3-yr., T. ....	.50	.45	4 to 6 ins., 2-yr., T. ....	.28	.25	8 to 10 ins., 3-yr., T. ....	.45	.40
Chamaecyparis plumosa aurea			6 to 8 ins., 2-yr., T. ....	.32	.30	10 to 12 ins., 4-yr., T. ....	.55	.50
(Golden Plumed Cypress)			8 to 10 ins., 2-yr., T. ....	.45	.40	10 to 15 ins., 6-yr., T., fld...	.65	.60
4 to 6 ins., 2-yr., T. ....	.22	.18	10 to 15 ins., 3-yr., T. ....	.50	.45	Taxus media hicksii (Hicks' Yew)		
6 to 8 ins., 2-yr., T. ....	.30	.28	Juniper pfitzeriana compacta			4 to 6 ins., 2-yr., T. ....	.20	.18
8 to 10 ins., 3-yr., T. ....	.35	.30	8 to 10 ins., 2-yr., T. ....	.45	.40	6 to 8 ins., 2-yr., T. ....	.25	.22
10 to 15 ins., 3-yr., T. ....	.45	.40	Juniper pfitzeriana aurea			8 to 10 ins., 2-yr., T. ....	.35	.30
Colorado Blue Spruce (Picea pungens)			4 to 6 ins., 2-yr., T. ....	.28	.25	10 to 12 ins., 3-yr., T. ....	.45	.40
4 to 6 ins., 3-yr., T. ....	.18	.15	6 to 8 ins., 2-yr., T. ....	.35	.32	12 to 15 ins., 4-yr., T. ....	.55	.48
6 to 8 ins., 4-yr., T. ....	.22	.18	8 to 10 ins., 2-yr., T. ....	.40	.38	Thuja occidentalis (American Arborvitae)		
8 to 10 ins., 5-yr., T. ....	.28	.25	10 to 12 ins., 2-yr., T. ....	.50	.45	2 to 4 ins., 3-yr., S. ....	.08	.06
10 to 12 ins., 6-yr., T. ....	.35	.30	12 to 15 ins., 3-yr., T. ....	.60	.55	4 to 8 ins., 3-yr., S. ....	.10	.08
12 to 15 ins., 6-yr., T. ....	.40	.35	Juniper stricta (Spiny Greek)			8 to 10 ins., 4-yr., S. ....	.15	.12
15 to 18 ins., 7-yr., T. ....	.45	.40	4 to 6 ins., 2-yr., T. ....	.35	.30	10 to 15 ins., 4-yr., S. ....	.20	.18
Douglas Fir (Pseudotsuga douglasii)			6 to 8 ins., 2-yr., T. ....	.40	.38	Thuja occidentalis douglasii aurea		
4 to 6 ins., 1-yr., T. ....	.18	.15	8 to 10 ins., 2-yr., T. ....	.48	.40	(Golden Douglas Arborvitae)		
6 to 8 ins., 1-yr., T. ....	.20	.18	10 to 15 ins., 3-yr., T. ....	.55	.50	8 to 10 ins., 3-yr., T. ....	.45	.40
8 to 10 ins., 1-yr., T. ....	.25	.20	Juniper squamata meyeri (Blue Meyer)			10 to 12 ins., 3-yr., T. ....	.55	.50
10 to 15 ins., 1-yr., T. ....	.35	.30	3 to 4 ins., 2-yr., T. ....	.32	.28	12 to 15 ins., 4-yr., T. ....	.65	.60
Euonymus alatus (Winged Euonymus)			4 to 6 ins., 2-yr., T. ....	.40	.38	Thuja occidentalis elegantissima lutea		
6 to 10 ins., 2-yr., T. ....	.20	.18	6 to 8 ins., 2-yr., T. ....	.48	.40	(Golden Tipped Arborvitae)		
10 to 12 ins., 3-yr., T. ....	.25	.20	8 to 10 ins., 2-yr., T. ....	.55	.50	8 to 10 ins., 3-yr., T. ....	.35	.32
12 to 15 ins., 4-yr., T. ....	.35	.32	10 to 12 ins., 2-yr., T. ....	.60	.55	10 to 12 ins., 3-yr., T. ....	.40	.38
Euonymus fortunei coloratus			Leucothoe calceabell			12 to 15 ins., 4-yr., T. ....	.50	.48
(Prostrate Evergreen Creeper)			(Drooping Andromeda)			15 to 24 ins., 4-yr., T. ....	.65	.60
Low growing			3 to 4 ins., 1-yr., T. ....	.18	.16	Thuja occidentalis globosa , Woodward's		
4 to 8 ins., 1-yr., T. ....	.18	.16	4 to 6 ins., 2-yr., T. ....	.22	.20	8 to 10 ins., 2-yr., T. ....	.30	.28
8 to 12 ins., 1-yr., T. ....	.28	.25	6 to 8 ins., 2-yr., T. ....	.25	.22	10 to 12 ins., 3-yr., T. ....	.40	.38
Euonymus fortunei erectus			8 to 10 ins., 2-yr., T. ....	.35	.30	12 to 15 ins., 3-yr., T. ....	.50	.45
(Evergreen Big-leaved Winter-Creeper)			Liquidambar styraciflua (Sweet Gum)			Thuja occidentalis pyramidalis		
4 to 8 ins., 1-yr., T. ....	.18	.16	6 to 12 ins., 2-yr., field	.06	.05	(Pyramidal Arborvitae)		
8 to 12 ins., 2-yr., T. ....	.25	.22	12 to 18 ins., 2-yr., field	.08	.06	8 to 10 ins., 2-yr., T. ....	.38	.35
12 to 18 ins., 3-yr., T. ....	.35	.30	18 to 24 ins., 3-yr., field	.10	.08	10 to 12 ins., 2-yr., T. ....	.45	.42
Euonymus radicans vegetus			Mahonia aquifolium (Oregon Grape Holly)			12 to 15 ins., 3-yr., T. ....	.55	.50
(Evergreen Winter-Creeper)			2-yr., bed run	.06	.05	15 to 18 ins., 4-yr., T. ....	.65	.60
3 to 4 ins., 1-yr., T., beds	.15	.12	2 to 4 ins., 2-yr., S. ....	.09	.07	18 to 24 ins., 5-yr., T. ....	.75	.70
4 to 8 ins., 1-yr., T., beds	.20	.18	3 to 5 ins., 3-yr., S. ....	.12	.10	Tsuga canadensis (Hemlock)		
8 to 10 ins., 2-yr., T. ....	.35	.30	Norway Spruce (Picea excelsa)			6 to 8 ins., 3-yr., T. ....	.35	.32
10 to 12 ins., 3-yr., T. ....	.45	.40	4 to 8 ins., 3-yr., T. ....	.12	.05	Viburnum opulus nana , dwarf		
12 to 15 ins., 4-yr., T. ....	.55	.50	5 to 10 ins., 4-yr., T. ....	.15	.06	4 to 6 ins., 2-yr., T. ....	.25	.20
Illex crenata			10 to 12 ins., 4-yr., T. ....	.20	.12	6 to 8 ins., 4-yr., T. ....	.45	.40
(Pyramidal Japanese Holly)			12 to 15 ins., 5-yr., T. ....	.25	.18	White Spruce (Picea alba)		
8 to 10 ins., 2-yr., T. ....	.35	.32	Pieris japonica (Japanese Andromeda)			6 to 10 ins., 5-yr., T. ....	.20	.10
10 to 12 ins., 3-yr., T. ....	.40	.38	1 to 3 ins., 1-yr., T. ....	.20	.18	10 to 12 ins., 5-yr., T. ....	.25	.15
12 to 15 ins., 3-yr., T. ....	.45	.42	3 to 4 ins., 2-yr., T. ....	.28	.25	12 to 15 ins., 5-yr., T. ....	.28	.18
15 to 18 ins., 4-yr., T. ....	.55	.50	4 to 6 ins., 3-yr., T. ....	.35	.30			
Illex crenata convexa (Bullata)			6 to 8 ins., 4-yr., T. ....	.38	.35			
8 to 10 ins., 2-yr., T. ....	.38	.35	Austrian Pine (Pinus nigra)					
10 to 12 ins., 2-yr., T. ....	.48	.45	6 to 8 ins., 3-yr., S. ....	.12	.02½			
12 to 15 ins., 3-yr., T. ....	.65	.55	8 to 10 ins., 3-yr., S. ....	.15	.03½			
12 to 18 ins., 5-yr., field	1.00	.90	(Order minimum, 500 at 1000 rate.)					
			Pinus mugo , Tyrolean-Swiss					
			2 to 3 ins., 3-yr., S. ....	.10	.09			
			3 to 4 ins., 3-yr., S. ....	.15	.12			
			4 to 6 ins., 3-yr., S. ....	.18	.16			
			(Order minimum, 500 at 1000 rate.)					

Lining-out Stock. 25 at the 100 Rate. 300 at the 1000 Rate.

TERMS: Free packing for cash with order, otherwise ½ deposit with order and balance C.O.D. Packing at cost. All shipments by railway express.

Write for our complete price list.

PALLACK BROS. NURSERIES, INC.

Phone: Zellenople 789 (or 644 evenings) (We are not open Sundays)

(31 mi. north of Pittsburgh, Pa., on Rte. 19)

R. D. 1, Harmony, Pa.

NORTHERN-GROWN STOCK

Strict Grading — Well Packed
Satisfaction Guaranteed
There may be as good — none better.

TRANSPLANTS

3-yr., 2 Per 100 Per 1000

Colorado Blue Spruce		
8 to 10 ins.	\$18.00	\$140.00
6 to 8 ins.	15.00	110.00
4 to 6 ins.	12.00	90.00
Black Hills Spruce		
8 to 10 ins.	18.00	140.00
6 to 8 ins.	15.00	110.00
4 to 6 ins.	12.00	90.00
Norway Spruce		
12 to 18 ins.	15.00	130.00
10 to 12 ins.	12.00	100.00
8 to 10 ins.	10.00	80.00
Grafting grade, 5/16 to 3/4-in. cal.	10.00	75.00
American Arborvitae		
15 to 18 ins.	18.00	150.00
12 to 15 ins.	15.00	100.00
8 to 12 ins.	10.00	80.00

SEEDLINGS

3-yr.

White Pine		
6 to 10 ins.	5.00	30.00
3 to 6 ins.	4.00	25.00
Scotch Pine, French		
10 to 14 ins.	5.00	27.50
6 to 10 ins.	4.00	22.50
Austrian Pine		
8 to 10 ins.	6.00	40.00
6 to 8 ins.	5.00	30.00
Douglas Fir, taxifolia glauca		
6 to 10 ins.	5.00	30.00
Black Hills Spruce		
6 to 8 ins.	4.00	35.00
3 to 6 ins.	3.00	25.00
Colorado Blue Spruce		
8 to 10 ins.	4.50	35.00
4 to 6 ins.	4.00	27.50
Norway Spruce		
6 to 10 ins.	4.00	25.00
4 to 6 ins.	3.00	18.00
American Arborvitae		
6 to 10 ins.	4.00	35.00
4 to 6 ins.	3.00	25.00

Write for special prices on 2-yr. seedlings, also prices on large orders of 3-yr. seedlings.

J. R. PALMER & SON
Blackduck, Minn.

ARMINTROUT'S HAVE THEM!

Pinus thunbergi

JAPANESE BLACK PINE

3 to 6 ins., 2-yr., seedlings
\$6.00 per 100; **\$30.00** per 1000
10,000 less 10%

Write Today for New Spring
Price List and Planting Guide

**ARMINTROUT'S
EVERGREEN NURSERY**
R. R. 1 Allegan, Mich.

disservice who does not offer Bronze Gremlin, a 1960 introduction. If one remembers the perky beauty of the original Gremlin, whose little (an inch and a half) pompons of orchid pink start the ladies snipping cor-sages about the middle of Sep-tember (earlier on old-established clumps), he will realize the possibi-lities of that variety when it is clothed in lively bronze pompons of the same size and profligate numbers. For a lumberjack, I might pin down the subtle shades of its flower colors, but let it go at bronze and the assurance that its mahogany and walnut shades are there for enjoyment. I grew it here under number before introduc-tion, when it commenced to bloom about the middle of September the first year I had it and close to the first of the same month the following year.

APPLE VIRUS PROBLEMS

[Continued from page 14]

special permit which authorized the entry of such material for increase, so there would eventually be an ade-quate domestic supply of such under-stocks. Most important in this group of vegetatively propagated under-stocks were the several East Malling apple clones.

Postentry quarantine requirements were set up in revisions of the quar-antine act of 1947, and vegetatively propagated understocks of fruit trees were among the items placed on the postentry quarantine list. At the same time importation of material of named horticultural varieties of apple, pear and certain other fruits used for fruit production was pro-hibited, mainly to avoid danger of introducing European brown rot of pomaceous fruits. At that time only one reference was made to a possible virus disease of a pomaceous fruit that was not known in the United States. Mottle leaf, or mosaic chlor-osis, of apple was reported from South Africa; for that reason apple material was prohibited from that country, the speaker stated.

Postentry Quarantine

From July 1, 1949, the East Malling and Malling Merton apple understocks arriving in this country went into postentry quarantine deten-tion on property controlled by the importer. There they remained for a period of two full growing seasons, for field inspections. At first those inspections were intended to detect the possible presence of a brown rot infection that might have escaped detection at the time of entry. Later, as the plant quarantine division be-

SURPLUS FRUIT TREES

If you can use 50 or more of any one of the following varieties, we are in a position to quote prices you cannot pass up. Send us your want list.

APPLES

Baldwin, 11/16, 9/16-in. cal.
Cortland, 11/16-in. cal.
Grimes Golden, 11/16, 9/16-in. cal.
Jonathan, 9/16, 7/16-in. cal.
McIntosh, 11/16, 9/16, 7/16, 5/16-in. cal.
Stayman's Winesap, 11/16, 9/16-in. cal.
Ruby, 11/16, 9/16-in. cal.
Wealthy, 11/16, 9/16-in. cal.
Yellow Transparent, 9/16, 7/16-in. cal.

PEARS

Bartlett, 11/16, 9/16, 7/16-in. cal.
Clapp's Favorite, 11/16-in. cal.
Cope Seedless, 11/16, 9/16, 7/16-in. cal.
Gorham, 11/16, 9/16-in. cal.
Kieffer, 11/16, 9/16-in. cal.
Seckel, 9/16, 7/16, 5/16-in. cal.

CHAMPION NURSERIES, Inc.
3689 Main St. Perry, Ohio

PAUL'S SCARLET HAWTHORN

6 to 7 ft., standards, \$1.60 each

Heavy NORWAY MAPLE Trees

6 to 8 ft., br., \$1.20 each

Salesyard Quality

DWARF APPLE TREES

5 to 6 ft., br., only 95c each

APPLE TREES ON M M 111 and 104

These are heavy-producing, heavily rooted trees.

5 to 6 ft., br., only \$1.15 each
4 to 5 ft., br., only \$1.05 each

BARTLETT and BEURRE D'ANJOU PEARS

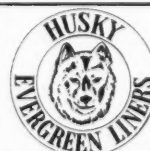
On French Roots

Quality 6-ft. trees, 90c each

Large quantities 10% further discount.

DWARF PEACH TREES

THE C. D. MORRIS NURSERY, LTD.
Box 5
Ocean Park, B. C., Canada



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THE
CRUMRINE NURSERY
R. D. 2 Alliance, Ohio

CONTAINER-GROWN STOCK

Our container-grown nursery stock is the very best quality produced in the south. We have given very careful attention to soil mixture, feeding, watering and general care. We are very proud of this container-grown stock and justly so.

Container-grown stock can be planted any time during the year, and we advise you to get your supply early. You have the advantage of a better selection, as well as being able to offer your customers their stock earlier. You profit by bringing people into your establishment first.

All one-gallon items are grown in green Plantainers. All two-gallon items are grown in green 8-inch Nursericans.

For full truckloads we can arrange for very economical transportation. Available trucks can haul from 4200 to 4500 one-gallon container-grown plants—door-to-door delivery—at a very low cost.

MINIMUM ORDER—25 plants of one variety. 250 plants or more of one variety take the 1000 rate.

AZALEAS

	Each per 100	Each per 1000
CORAL BELLS		
1-gal.	\$.65	\$6.60
HEXE		
1-gal. ....	.65	.60
HINODEGIRI		
1-gal. ....	.65	.60
2-gal.	1.50	1.40
SNOW		
1-gal. ....	.65	.60

	Each per 100	Each per 1000
CLEYERA JAPONICA		
2-gal.	\$1.50	\$1.40
GARDENIA RADICANS		
1-gal. ....	.60	.55
ILEX AQUIPERNYI BRILLIANT		
1-gal. ....	.70	.65
ILEX CORNUTA BURFORDI		
1-gal. ....	.65	.60
2-gal.	SOLD OUT	

	Each per 100	Each per 1000
ILEX CORNUTA ROTUNDA		
1-gal.	\$.75	\$0.70
ILEX CRENATA BULLATA		
1-gal. ....	.65	.60
2-gal.	1.15	1.00
ILEX CRENATA DIVARICATA		
1-gal. ....	.60	.55
ILEX CRENATA HELLERI		
1-gal. ....	.65	.60
2-gal.	1.50	1.40
ILEX CRENATA HETZI		
1-gal. ....	.65	.60
2-gal.	1.15	1.00
ILEX CRENATA MICROPHYLLA		
1-gal. ....	.65	.60
ILEX CRENATA REPANDENS		
1-gal. ....	.60	.55
ILEX CRENATA ROTUNDIFOLIA		
1-gal. ....	.65	.60
ILEX OPACA EAST PALATKA		
1-gal. ....	.60	.55

	Each per 100	Each per 1000
ILEX VOMITORIA (Schilling's Dwarf)		
Yaupon)		
1-gal.	\$.75	\$0.70
2-gal.	1.50	1.40
LIGSTRUM LUCIDUM COMPACTUM		
1-gal. ....	.60	.55
LIRIOPE MUSCARI MAJESTIC		
1-gal. ....	.60	.55
LIRIOPE MUSCARI VARIEGATA		
1-gal. ....	.65	.60
PODOCARPUS SINENSIS (Japanese Yew)		
1-gal. ....	.65	.60
PYRACANTHA COCCINEA LALANDI		
1-gal. ....	.65	.60
2-gal.	1.50	1.40
PYRACANTHA CRENATA-SERRATA GRABERI		
1-gal. ....	.65	.60
PYRACANTHA FORMOSANA		
1-gal. ....	.65	.60
2-gal.	1.50	1.40
PYRACANTHA GOVERNMENT RED		
1-gal. ....	.65	.60

LINING-OUT STOCK

	100	1000
BUXUS HARLANDI		
4 to 6 ins.	\$12.00	\$110.00
6 to 8 ins.	15.00	140.00
BUXUS JAPONICA		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
BUXUS SEMPERVIRENS		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
CAMELLIA SASANQUA		
Cleopatra		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
Crimson Tide		
6 to 8 ins.	20.00	180.00
8 to 12 ins.	22.50	200.00
Dainty Pink		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
Daydream		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
Hino-de-Gumo		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
Jean May		
6 to 8 ins.	20.00	180.00
8 to 12 ins.	22.50	200.00
Mine-No-Yuki (Double White)		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
Miss Auburn		
6 to 8 ins.	20.00	180.00
8 to 12 ins.	22.50	200.00
Pink Snow		
6 to 8 ins.	20.00	180.00
8 to 12 ins.	22.50	200.00
Rosea		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
Texas Star		
6 to 8 ins.	17.00	150.00
CHERRY LAUREL		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
CLEYERA JAPONICA		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
ELAEAGNUS FRUITLANDI		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
FATSHEDERA (Tree Ivy)		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00

	100	1000
FELJOA (Pineapple Guava)		
8 to 8 ins.	\$12.00	\$110.00
8 to 12 ins.	15.00	140.00
GARDENIA FORTUNEI		
8 to 12 ins.	12.00	110.00
12 to 18 ins.	15.00	140.00
GARDENIA MYSTERY		
8 to 12 ins.	12.00	110.00
12 to 18 ins.	15.00	140.00
GARDENIA RADICANS		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
GINKGO BILOBA (Seedlings)		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
ILEX CORNUTA BURFORDI		
6 to 8 ins.	20.00	180.00
8 to 12 ins.	22.50	200.00
ILEX CRENATA BUXIFOLIA		
4 to 6 ins.	15.00	140.00
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
ILEX CRENATA HELLERI		
4 to 6 ins.	20.00	180.00
ILEX CRENATA MICROPHYLLA		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
ILEX CRENATA REPANDENS		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
ILEX CRENATA ROTUNDIFOLIA		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
ILEX VOMITORIA DWARF (Dwarf Yaupon)		
4 to 6 ins.	15.00	140.00
6 to 8 ins.	17.00	150.00
ILICUM ANISATUM (Anise Tree)		
18 to 24 ins.	20.00	180.00
JUNIPERUS DEPRESSA PLUMOSA (Andorra)		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
JUNIPERUS EXCELSA STRICTA (Spiny Greek)		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
JUNIPERUS SABINA (Savin Juniper)		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00

ORIENTAL MAGNOLIAS

	100	1000
MAGNOLIA ALEXANDRINA		
MAGNOLIA RUSTICA RUBRA		
MAGNOLIA SOULANGIANA		
MAGNOLIA SOULANGIANA NIGRA		
2-yr. Liners		
8 to 12 ins.	\$35.00	\$300.00
2-yr. Liners		
12 to 18 ins.	40.00	350.00
2-yr. Liners		
18 to 24 ins.	45.00	400.00
MAGNOLIA STELLATA		
2-yr. Liners		
6 to 8 ins.	35.00	300.00
2-yr. Liners		
8 to 12 ins.	40.00	350.00
2-yr. Liners		
12 to 15 ins.	45.00	400.00

	100	1000
LIGSTRUM LUCIDUM COMPACTUM		
4 to 6 ins.	\$10.00	\$ 90.00
6 to 8 ins.	12.00	110.00
MAGNOLIA GRANDIFLORA		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
12 to 18 ins.	20.00	180.00
18 to 24 ins.	22.50	200.00
NANDINA DOMESTICA		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
OSMANTHUS SAN JOSE		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
PHOTINIA GLABRA		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
PINUS HALEPENSIS (Aleppo Pine)		
4 to 6 ins. S.	6.00	50.00
6 to 8 ins. S.	7.50	60.00
8 to 12 ins. S.	10.00	90.00
PITTOSPORUM TOBIRA VARIEGATA		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
VIBURNUM MACROPHYLLUM		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00

250 plants or more of one variety and size take the 1000 rate.

BLACKWELL NURSERIES,

Semmes, Ala.



Why worry about elm diseases?

The CHRISTINE BUISMAN ELM is not affected by them.

Introduced from Europe by the U. S. D. A. and subjected by them to severe testing for many years. It has been found immune to phloem necrosis and so resistant to Dutch Elm disease that it is not affected by these diseases.

This is a handsome tree, producing straight stems of heavy caliper for the height, with central leaders and without forks or crotches. It has slender but numerous ascending branches which carry a great mass of dark green foliage. Highly satisfactory for lawn, street and park planting.

	Per 10	Per 100	Per 1000
8 to 10 ft., B&B	\$80.00		
6 to 8 ft.	27.50	\$250.00	\$2250.00
5 to 6 ft.	22.00	200.00	1750.00
4 to 5 ft.	16.00	150.00	1350.00

(30 at 100 rate; 300 at 1000 rate)

THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"
Ottawa, Kan.

gan to learn of possible virus infections in such imported understocks, attention was also given to that matter during the field examinations, according to Dr. Wheeler.

During the years 1949 through 1957 the vegetatively propagated apple understocks imported for post-entry quarantine growing were not permitted to be budded or grafted until after release from the two years of quarantine. Instead, the importers were expected to make every effort to establish stool beds. March 13, 1958, an amendment to quarantine No. 37 became effective which permitted the apple understocks to be budded or grafted during the quarantine period. One of the main reasons for this amendment, said Mr. Wheeler, was the belief that growth from grafts or buds in the second year of detention might be more likely to show virus symptoms than the understocks themselves.

Since March 13, 1958, there has been no change in the quarantine status of vegetatively propagated apple understocks. They may be imported into any state for postentry quarantine growing, provided the state of destination offers no objection. The prospective permittee must apply for his permit and sign the growing agreement. With state concurrence the permit is issued, and thereafter the importations are released to the importer following quarantine fumigation.

Vegetatively produced understocks certified by the Canadian government as of Canadian origin are not required to be grown under post-entry quarantine. The same is true of finished trees of Canadian origin, Mr. Wheeler stated in conclusion.

Rootstock Virus Studies

"Clonal Rootstocks and Latent Viruses of Apple" was the topic of the next speaker, R. M. Gilmer, of the fruit experiment station, Geneva, N. Y. He cited work done in connection with K. D. Brase in his talk as follows, using slides in addition:

"For the past decade, commercial fruit growers have shown a steadily increasing interest in controlling size of orchard apple trees in order to cut production costs. This interest has led to an increasing demand for apple nursery trees propagated on clonal apple rootstocks. Certain of the East Malling (EM) and Merton-Malling (MM) clonal rootstocks are now in wide use because of their ability to control tree size.

"The use of such clonal rootstocks has greatly increased the danger of introducing viruses into apple nursery trees. When seedling rootstocks

CHINESE CORKSCREW TREE

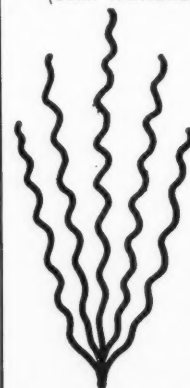
唐人咕士路

(*Salix matsudana tortuosa*)

Oriental Horticultural Curiosity

From the Hupeh Province of east central China. Branches both large and small grow upward with an exotic corkscrew twist.

This tree is also known in common parlance as Corkscrew Tree, Corkscrew Willow or Contorted Hankow Willow.



	Per Each	Per Dozen
4 to 5 ft.	\$2.50	\$25.00
6 to 8 ft.	3.50	35.00
8 to 10 ft. This size for nursery pick- up only	5.00	50.00
Heavy field liners, \$30.00 per 100; \$250.00 per 1000.		
Pot plant liners (spring only), \$30.00 per 100; \$250.00 per 1000.		

BEARDSLEE NURSERY
Perry, Ohio

THE MEAD NURSERY

Rt. 3, Box 213

Oconomowoc, Wis.

Wholesale Growers
of Landscape Stock

French Lilacs

Flowering Crab Apples

Honey Locusts

Maples -- Willows

Canoe Birches

Euonymus Fortunei

Pfitzer Junipers

Write for List

Highest-Quality NORTHERN ALABAMA GROWN ORNAMENTALS

For spring, 1961, we can still offer, in quantity, the stock listed below.

All merchandise has been properly grown and sheared as needed.

All first class.

Pictured below are our young, healthy, assorted evergreens.



	Each
<i>Abelia grandiflora</i>	
18 to 24 ins., B&B	\$0.75
2 to 3 ft., B&B	1.00
<i>Barberry, Julianae</i> , evergreen	
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
<i>Buxus sempervirens</i> (American Boxwood)	
12 to 15 ins., B&B, heavy	1.50
15 to 18 ins., B&B, heavy	2.00
18 to 21 ins., B&B, heavy	2.50
<i>Camellia sasanqua Cleopatra</i>	
15 to 18 ins., B&B	1.25
<i>Elaeagnus fruitlandi</i>	
18 to 24 ins., B&B	1.00
<i>Gardenia fortunei</i>	
15 to 18 ins., B&B	.80
18 to 24 ins., B&B	1.00
<i>Gardenia radicans and stricta nana</i>	
15 to 18 ins., B&B	.80
18 to 24 ins., B&B	1.00
<i>Ilex cornuta femina</i>	
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
<i>Ilex cornuta compacta</i>	
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
<i>Ilex cornuta burfordi</i>	
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	2.00
<i>Ilex crenata</i>	
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
<i>Ilex crenata bullata (convexa)</i>	
10 to 12 ins., B&B	1.00
12 to 15 ins., B&B	1.25
<i>Ilex crenata hetzi</i>	
15 to 18 ins., B&B	1.25
<i>Ilex crenata helleri</i>	
10 to 12 ins., B&B	1.50
<i>Ilex crenata rotundifolia</i>	
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
<i>Ilex East Palatka</i>	
18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.50
2 1/2 to 4 ft., B&B	1.75
3 to 4 ft., B&B	2.50
4 to 5 ft., B&B	3.00
<i>Ilex opaca femina — Croonenburg</i>	
Taber No. 3, Lake City and Howard	
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50
3 to 4 ft., B&B	2.50
4 to 5 ft., B&B, \$1.00 per foot	3.00
<i>Ilex opaca fosteri No. 2</i>	
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50
<i>Ilex vomitoria nana Shillings Dwarf</i>	
10 to 12 ins., B&B	1.50
12 to 15 ins., B&B	2.00

	Each
<i>Jasmine, floridum (Showy Jasmine)</i>	
18 to 24 ins., B&B	\$1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
<i>Ligustrum lucidum compactum and</i> <i>Ligustrum pendulum</i>	
18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
<i>Magnolia grandiflora</i>	
18 to 24 ins., B&B	1.00
2 to 3 ft., B&B	1.50
3 to 4 ft., B&B	2.50
<i>Mahonia bealei</i>	
12 to 15 ins., B&B	1.00
<i>Nandina domestica</i>	
18 to 24 ins., B&B	1.00
2 to 3 ft., B&B	1.25
<i>Osmanthus illicifolius</i> (Holly-Leaved Osmanthus)	
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
<i>Pittosporum tobira</i>	
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
<i>Prunus caroliniana (Cherry Laurel)</i>	
18 to 24 ins., B&B	1.00
2 to 3 ft., B&B	1.25
3 to 4 ft., B&B	1.50
4 to 5 ft., B&B	2.00
5 to 6 ft., B&B	2.75
6 to 7 ft., B&B	3.75
<i>Pyracantha formosana</i>	
1 gal., 18 to 24 ins., R.P., staked	.75
2 to 3 ft., B&B	2.00
<i>Pyracantha lalandi</i>	
1 gal., 2 to 3 ft.	1.00
<i>Scotch Broom</i>	
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<i>Azalea Hindogiri (Kurume)</i>	
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<i>Juniperus conferta (Shore Juniper)</i>	
12 to 15 ins., B&B	1.10
<i>Juniperus virginiana burki</i>	
2 to 3 ft., B&B	2.00
<i>Juniperus virginiana canaertii</i>	
2 to 3 ft., B&B	2.00
<i>Juniperus chinensis pfitzeriana —</i> <i>Pfitzer and Blue</i>	
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	2.00
<i>Juniperus chinensis compacta</i> (Compact Pfitzer Juniper)	
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Pfitzer Juniper, 12 to 18 ins.
Fastigiata Juniper, 3 to 4 ft.
Greek Juniper
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18 to 24 ins., B&B	1.50
<i>Juniperus horizontalis plumosa</i> (Andorra Juniper)	
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15 to 18 ins., B&B	1.25
Mugho Pine	
10 to 12 ins., T, B&B	1.50
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are used, the only common avenue for virus introduction is with the scion, since only a few viruses are known to be readily seed transmitted. But with clonal rootstocks, a virus may be introduced either in the scion or in the rootstock itself. A single infected clonal mother plant in the stool bed may produce from 20 to 50 lining-out stocks each year, each of which will also be virus-infected. The use of such infected rootstocks will invariably result in the infection of any scion variety propagated upon them; in this way, a large number of previously healthy scion varieties may become contaminated with viruses in a short time.

Delayed Symptoms

"Unfortunately, many of the apple viruses do not induce easily recognized symptoms in the clonal rootstocks, and the serious effects of virus infection may not become evident until after the nursery tree is established in the orchard or, in some cases, until the tree has actually fruited. This fact complicates the task of the nurseryman, for he cannot eliminate infected nursery trees merely by visual inspection. In some cases, the nurseryman may, in essence, sell the orchard grower a delayed-action bomb, which does not explode for six or seven years.

"Our experience with the viruses present in the clonal rootstocks of the EM and MM series is still limited, since a concerted effort at their study was undertaken only within the past two years. In spite of this brief experience, we have obtained experimental evidence for the occurrence of viruses in certain of the clonal apple rootstocks and there is already a preliminary indication that certain viruses can be seriously injurious.

"One of the virus diseases found in clonal apple rootstocks is rubbery wood, which was recently found in EM I in the United States. This disease, fairly common in European apple varieties, prevents the formation of normal lignin, a structural material which strengthens the trunk and branches in some apple varieties. The branches of affected trees are about as rigid as a piece of rubber hose of the same diameter, so that the trees imitate a weeping willow in growth habit. In addition, the trees are slightly stunted, difficult to prune and, on the basis of English experience, do not yield so well as healthy trees. Many important American apple varieties apparently do not develop symptoms of rubbery wood, but others, such as Golden Delicious, Jonadel and probably R. I.

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6 to 8 ins.	25 to 100	100 to 250	250 to 500	500 to 1000
EACH	20c	18c	16c	14c

Greening, develop typical symptoms in some degree. An English variety, Lord Lambourne, is highly susceptible and is presently being used as a virus indicator.

Rubbery Wood Effect

"Rubbery wood can cause serious damage in the nursery. Infected EM I rootstocks show no overt symptoms, although they do not grow so vigorously as healthy EM I rootstocks. But the presence of rubbery wood virus may seriously reduce the

bud-take of a susceptible scion variety; in our experiments, the bud-take of Lord Lambourne on infected EM I was only 55 per cent as compared to 94 per cent bud-take when Lord Lambourne was budded on healthy EM I. Even when buds of Lord Lambourne united with infected EM I stocks, growth of the scions was less than one third of that of Lord Lambourne scions on healthy EM I. Many of the infected Lord Lambourne trees developed the weeping-willow habit even as yearlings, and

none of the infected trees would be commercially acceptable.

"Another virus, chlorotic leaf spot virus, occurs in certain of the EM and MM rootstock clones without producing evident symptoms. All stocks of the commercially important EM VII and EM IX that have been examined are infected with this virus. It also occurs in EM II, EM XIII, MM 106 and MM 109, although healthy sources of these clones have been discovered.

"Chlorotic leaf spot virus is known

**TAXUS CUSPIDATA**

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6 to 8 ins.....	40c	36c	32c	28c
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to occur in at least 28 commercial scion varieties of apple in New York but it apparently does not injure any of these severely. This virus is, however, a serious potential threat to certain of the new scab-immune varieties presently being developed in breeding programs, since it induces severe stunting in these new varieties. The virus also restricts the use of certain prospective rootstocks such as Spy 227 and Malus platycarpa and is one of the major reasons why these rootstocks have never been introduced into commercial usage.

Stem-Pitting Virus

"Still a third virus, stem-pitting virus, can be carried in commercial scion varieties without causing symptoms. This virus can severely injure certain root or body stocks, such as Virginia crab apple and Ottawa 524. The virus injury results in a virtual girdling or semigirdling of the conductive tissues in such stocks, causing poor growth, decline and even death. The injury usually is not fully apparent until some time after the trees have been set in the orchard and may not become striking until the trees commence to fruit.

"There are numerous other apple viruses that develop visible symptoms only upon apple fruits. This group of viruses, which includes those of scar skin, star crack, dwarf fruit, green crinkle and several others, may also be carried in clonal rootstocks without producing evident symptoms. The injurious effects of these diseases would become evident only in the orchard after the infected trees fruited.

"This discussion is, by no means, meant to imply that clonal rootstocks should no longer be used and that there should be return to propagating apples only on seedling rootstocks, because of virus problems. Clonal rootstocks are much too valuable to be summarily discarded in this manner and with the probable continuation of the production cost squeeze are likely to become of even greater value. But it is certain that the use of clonal rootstocks will materially increase the hazards of virus infections unless specific measures to minimize these hazards are taken. The exact form that these measures must take will not be known until further research determines what they will be."

Prof. Dan F. Millikan, department of horticulture, University of Missouri, Columbia, also addressed the group. His remarks concerning evident virus symptoms, which he pictured with slides, follow:

"In orchard trees it is convenient

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DOGWOOD, pink, bare-root
DOGWOOD, white, bare-root
MIMOSA
ARBORVITAE
JUNIPER, *fastigiata*
JUNIPER, *hetzi glauca*
JUNIPER, *Pfitzer*
ILEX OPACA, female
MAHONIA *pinnata*
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to consider virus infections as falling into three categories. This classification is an arbitrary one, but it will demonstrate the present picture of our knowledge. This grouping is as follows: (1) Those infections that cause pronounced symptoms upon the aboveground parts, (2) those infections with symptoms restricted to fruits and (3) those infections that are latent or detected only if tested by inoculating a susceptible host or variety.

"Apple mosaic is a good example of the first group, since the major symptoms are striking mottled patterns on the tree's foliage. These often consist of circular areas of white on the individual leaves which may coalesce and account for 50 per cent or more of the area. Some strains of the virus may cause severe defoliations, while others may be so mild as to be essentially symptomless.

"Reductions in tree growth and yields may be significant. The East Malling station found that Cox's Orange inoculated with three strains of mosaic varying from a very mild strain producing no symptoms to a very severe one causing partial defoliation reduced yield significantly.

"This disease is rather widespread in the United States, but the rate of spread appears to be so slow that

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roguing of affected trees appears to be adequate as a control. Many varieties are affected, but the insect vector has not been found in the United States. Jonathan and Lord Lambourne appear to be the best indicators.

Flat Limb

"Another spectacular type of virus disease is flat limb, which was found on Gravenstein in California and Nova Scotia. Advanced symptoms of this disease consist of a twisting of the limbs and the production of flattened areas due to a lack of wood development. There do not seem to be any marked leaf or fruit symptoms, but infected trees show a sparseness in the foliage and a reduction in the production of fruit. An incubation period of at least two years may be required before any symptoms can be seen on the infected trees.

"No known vectors have been reported for this disease, and the roguing of diseased trees is the general control practice. Resistant varieties, such as Jonathan, are often worked on the susceptible Gravenstein if roguing is considered too costly.

"Rubbery wood disease was reported in England in 1944 and since that time has been reported in New York and in British Columbia, Canada. The most characteristic symptom of this disease is the willowy type of growth and extreme limberness of the limb growth. Affected trees generally show a pronounced sucker growth. In most varieties this disease is latent, but sensitivity to this and other viruses has limited the popularity of an English variety, Lord Lambourne, otherwise an apple appealing to British trade. Early introductions of the Malling rootstocks may be partially infected and this might account for the erratic behavior of these stocks in certain areas.

Stem Pitting

"Stem pitting virus appears to be widespread in most American varieties of apple. Ordinarily, it seems to be a latent virus of little economic importance unless scions from a diseased source are budded or grafted on a sensitive body or rootstock, such as the Virginia crab.

"Initially, symptoms appear as small boat-shaped indentations on the wood beneath the cambium. Gradually these pits enlarge and develop into cracks in the bark which may be one-half inch wide and several inches long. The pitting becomes more severe as the tree matures, causing a pronounced dwarfing effect. Scion rooting may be affected, since diseased scions worked on Vir-

LINERS

Berberis Crimson Pygmy—RC, July 60, 3 to 5 ins., nearly all pretty well-branched to fairly bushy, 12c; light, BG, liners, 18 mos. old, branched to fairly bushy, 6 to 9 ins., 18c; heavy, BG, liners, 6 to 9 ins., bushy, 25c; heavy, BG, 3-yr., 9 to 12 ins., bushy, 40c.

Berberis Julianae—The hardest evergreen barberry—C, rooted Aug. 60, 5 to 6 ins., 9c; C, rooted Aug. 59, ready for field, 12 ins. and up, but not branched, 15c.

Berberis Julianae nana—Compact growth, darker green leaf, may be even harder, RC, Aug. 60, 5 to 6 ins., 10c.

Berberis Julianae pyramidalis—RC, 20c.

Berberis mentorensis—RC, Aug. 60, 5 to 6 ins., 7c; C, rooted Aug. 59, ready for field, 10 ins. and up, but not branched, 10c.

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Nivalls—Pure white, the best of the white-flowering quinces, vigorous, upright—RC, June 60, need to be potted or bedded, 10c; BG, liners, 8 to 15 ins., 18c; 15 to 24 ins., 24c.

Texas Scarlet—Red, spreading grower, wider than high. An excellent foundation plant, never gets too tall. Showier than an azalea. The best for canning because of the profuse red flowers on a compact, low plant. It is the prettiest quince and maybe the prettiest plant we ever saw in a can, RC, June 60, pot or bed them, 10c; BG, liners, 8 to 15 ins., 20c.

Toyonshiki—From Japan through the Morton Arboretum. Pure white, pure pink and pink and white flowers at random on the same branch. Some plants throw single branches of pure red flowers. A most remarkable effect. A clean, upright, vigorous grower, RC, June 60, 20c.

Ruby Glow—The deepest red (except Simoni) of the more than 70 varieties I have had, right, vigorous—RC, June 60, 15c; BG, liners, 15 to 24 ins., 35c.

Ginkgo biloba—1 yr., 8, 6 to 10 ins., 8c, \$70.00 per 1000; 2-yr., 8, 10 to 15 ins., 12c, \$110.00 per 1000; 15 to 24 ins., 17c, \$160.00 per 1000.

HOLLY

Ilex cornuta femina—RC, Aug. 60, strong tips, 4½ to 6½ ins., 6 to 12 leaves, heavily rooted, 8c.

Ilex cornuta burfordii—RC, Aug. 60, strong tips, 4½ to 6 ins., 6 to 12 leaves, heavily rooted, 8c.

Ilex crenata hetzi—RC, Aug. 60, long tips, 4½ to 6½ ins., 7c.

Ilex crenata Maxwell—A Bennett hybrid, looks like convexa but a much better grower. Should be a money maker. RC, Aug. 60, 8c.

Ilex crenata compacta—A Bennett hybrid, an excellent selection, good grower, quite compact, fine color, RC, Aug. 60, a little small, 8c.

Ilex rotundifolia—RC, Aug. 60, 5c; C, rooted Aug. 59, kept cut back to 6 or 7 ins., beginning to branch well, 8c.

Ilex Foster's Hybrid No. 2—Narrow, spiny leaves, red berries, fruits heavily, rapid grower, quite hardy, C, rooted Sept. 59, kept cut back to 7 to 9 ins., beginning to branch beautifully, 15c.

AMERICAN HOLLY HEDGE

Ilex Opaca—3½-yr., grown 2 years in Plantainer cans. Variety **Reynolds**, female, well-branched, kept cut back to 12 to 18 ins., 85c (we have too many); variety **James Baker**, female, our most compact, pyramidal selection, heavily branched, kept cut back to 15 to 21 ins., \$1.10; both have large leaves and bear large, bright red berries (no berries now). You may pick them up can and all or we will wash out the roots and pack free for shipment. Will make a perfectly beautiful, uniform hedge because all are the same clone. Or you could put them back in 2-gal. or larger cans to be sold for specimens. Ready any time.

JUNIPERS

Juniperus hetzi—RC, 10c; \$95.00 per 1000.

Juniperus keteleeri, RC, 15c

Juniperus pfitzeriana—RC, 10c; \$95.00 per 1000.

Juniperus pfitzeriana Blue—The best, bright blue strain, not like hetzi, same growth habit as regular pfitzer, possibly 10 per cent faster grower, RC, 15c; \$140.00 per 1000.

DAWN REDWOOD

Metasequoia glyptostroboides—Thought extinct for 30,000,000 years discovered in China in 1945. Royal Horticultural Society Dictionary of Gardening says, "This tree is undoubtedly one of the most notable acquisitions to our gardens of recent years." I agree. Large tree, fresh green, fernlike foliage, very rapid grower. Has made 16 feet or more in 6 years from seed. Deciduous, autumn foliage pale pink. Hardy throughout new Zone 5B at least. This includes most of original Zone IV including Lincoln, Neb.; Milwaukee, Wis.; Lansing, Mich.; Toronto; Syracuse, N. Y.; Portland, Me. Fine plants in Plantainer cans, \$2.00, pickup only. Packed for shipment in individual cartons, \$2.40.

Prunus laurocerasus schipkaensis (Cherry Laurel)—Quickly makes a large mound-shaped evergreen. RC, July 60, 6 to 8 ins., many full leaves, heavy root system, 10c; C, rooted July 59, kept cut back to 8 to 12 ins., BG, liners, beginning to branch, 20c.

Prunus laurocerasus zabellana (Cherry Laurel)—Usually considered the hardest. Spreading, like a Pfitzer Juniper, RC, July 60, 4½ to 7 ins., 12c; C, rooted July 59, kept cut back to 7 to 9 ins., BG, liners, beginning to branch, 20c.

Prunus laurocerasus macrophyllum (Cherry Laurel)—Certainly the prettiest with very large leaves, very dark green. Is even harder than zabellana here. RC, a little shorter because rare and cutting wood is still scarce, July 60, 20c.

Thuja orientalis aurea nana (Berckmans Golden Arborvitae)—Cuttings rooted spring 60, kept cut back to about 6 ins. to make them bush out, but still small enough for a 2½ or 3-in. pot. Several nurserymen have put these right into the field, 10c; cuttings rooted spring 59, kept cut back to 6 to 8 ins., beginning to branch, but not rounded out yet. Heavy, of good caliper, with fine root systems, 15c.

Viburnum macrocephalum sterile—(CHINESE SNOWBALL)

This is the one we love. Dazzling white snowballs, often 8 to 9 ins. in diameter, as big as a man's head, a clean, vigorous grower. On own roots, much better growth than if grafted, C, rooted July 59, in polyethylene plant bands, same amount of soil as in 3-in. pots, 65c.

Viburnum rhytidophyllum (Leather-Leafed Viburnum)—RC, July 60, 12c.

Viburnum rhytidophyloides—A hybrid between V. rhytidophyllum and V. lantana, similar to rhytidophyllum, but is harder, RC, July 60, 15c.

IN PLANTAINER CANS

American Holly; **DAWN REDWOOD**; **Pyraecanthus lalandi**, Wyatti, Kazan and Gibbs; **Flowering Quince**; **Magnolia grandiflora**; **Mahonia bealei**; **Berckmans Golden Arborvitae** and others. They are good, and are ready to move now. Please come by to see them.

FREE PACKING, liners in sphagnum moss and polyethylene plastic. Cash with order or 25% deposit, balance at time of shipment.

HARVEY TEMPLETON, JR.

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WINCHESTER — TENNESSEE

ginia crab generally fail to root and are dependent upon the seedling nurse root.

Russet Ring

"Leaf pucker disease has been reported in British Columbia, and a similar, if not identical disease, russet ring, has been found in Indiana and Washington. Pronounced distortion, accompanied by some yellowish-green flecking along the midribs, is produced on the first-formed leaves in early spring. This puckering and dwarfing generally becomes less evident as the growing season progresses, but the flecking may persist. Many varieties are affected, but Golden Delicious, Yellow Newtown, McIntosh and Spartan seem to be the most sensitive. Red Delicious may serve as a symptomless carrier.

"Several other diseases have been described in areas other than the United States and may be present in some of our apple stocks as a latent. Two of these, proliferation and rosette, appear to be present in

ROSE BUSHES

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FLOWERING CRAB APPLES

2-yr., br.	Each	Each
	10 to 50	50 to 100
Almey, Dolgo, Eleyi, Hopa, Red Silver, Redvein		
4 to 5 ft.	\$1.15	\$1.00
5 to 6 ft.	1.40	1.25
6 to 7 ft.	1.90	1.75
Bechtel's		
4 to 5 ft.	1.65	....
5 to 6 ft.	2.00	....

FIVE-IN-ONE FLOWERING CRAB APPLE

Five distinct varieties on one tree.
2-yr., 4 to 6 ft. 1.65 1.50
For other Flowering Trees, Shade Trees, Evergreens, Shrubs, Nut Trees and Fruit Trees see our display ad in February 1 issue of American Nurseryman or ask for Complete Wholesale Price List.

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Waynesboro, Virginia

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Shade Trees, Flowering Trees, Evergreens, Broad-Leaved Evergreens.
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many apple-growing areas of Holland and Switzerland."

Fruit Symptoms

A second group of symptoms restricted to fruits was also described. These are especially serious, because they are not detectable until the tree bears. Among these virus diseases is scar skin, reported in Missouri, appearing first as small light-green water-soaked areas on young fruit, then as scar tissue on mature fruit, where it may cover up to 50 per cent of the fruit surface, reducing fruit size. Red Delicious is susceptible to scar skin, which not only causes the fruit to be smaller, but also starchy, bitter and of poorer color.

Dapple apple, another fruit-shown virus, results in small, pale, circular spots that stand out in contrast to the normal green color in young apples and remain greenish as normal color develops in red apples, being less distinguishable in green and yellow fruit. McIntosh and Cortland are among the susceptible varieties.

A third symptom shown by fruit is false sting, which results in depressions and creases in the surface, these becoming magnified as the season advances. Russeted and cracked areas may develop in the depressions, and fruit may show excessive bumpiness. Gravenstein is among the hosts, and the virus has appeared in Nova Scotia and the United States, as well as other countries.

The latent viruses, which can be very costly to orchardists, were illustrated in Professor Millikan's slide presentations by chlorotic leaf spot on Russian seedling.

Other Comments

Additional comments on the subject of fruit viruses were made by Harry W. Guengerich, director of the prunus certification program conducted by the Stark Bros. Nurseries & Orchards Co., Louisiana,

EVERGREENS

In Quantity and Quality

	18 to 24 ins.	24 to 30 ins.	30 to 36 ins.	36 to 42 ins.	42 to 48 ins.
Juniper, Pfitzer	\$2.50	\$2.75	\$3.00	\$3.50	\$4.50
Juniper, Pfitzer Compact	2.50	2.75	3.00	3.50	4.50
Juniper, Pfitzer nana	3.50				
Juniper, hetzi glauca	2.50	2.75	3.00		
	15 to 18 ins.	18 to 22 ins.	22 to 24 ins.	24 to 30 ins.	30 to 36 ins.
Taxus, trimmed, sheared, 18 varieties	\$3.75	\$4.00	\$5.00	\$7.50	\$10.00
					\$15.00

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(Salix purpurea nana)

Beautiful new hedging shrub for all northern localities. Will thrive in practically any type of soil. Has fine-cut, bluish leaf and makes spectacular low-to-medium hedge. Should have full sun to develop to maximum attractiveness.

Per 100 Per 1000
Cutback liners \$ 5.00 \$ 45.00
12 to 15 ins., 1-yr. 15.00 125.00
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FLORIDA - GROWN CITRUS

4-in. and 6-in. plastic pots.

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	Each	Each
	10 to 49	50 and up
2 to 2½ ft. . . .	\$5.50	\$5.25
2½ to 3 ft. . . .	6.50	6.25
3 to 3½ ft. . . .	7.50	7.25

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Mo. As a result of a 15-year program the firm now has a group of 900 certified bud trees, indexed and isolated. Efforts are now being made to locate virus-free apple stocks, and a small group of trees that do not yet show any virus symptoms has been found.

Pear Decline

Pear decline continues a problem, Mr. Guengerich said, even with Old Home as understock, for fruit on trees top-worked on this are showing a virus-type disease called measles that is not apparent until fruiting. Propagating from bearing trees helps to avoid the problem of latent viruses, he suggested. He also declared that the cost of using virus-free cherry stock is offset by the increased bud-take and uniformity of stock.

Professor Millikan noted that ornamental crab apples are sensitive to viruses and are indicators.

Dr. Richard P. White, executive vice-president of the American Association of Nurserymen, urged continued study of the possibility of insects being vectors of viruses. It was brought out that insects might become a source of infection in indexed stock.

Robert Simpson, Simpson Orchard Co., Vincennes, Ind., suggested that

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Blackberries

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	10	100	1000
EBONY KING			
Trans.	\$3.00	\$20.00	\$125.00
No. 1	2.00	15.00	100.00
EL DORADO, select strain			
Trans.	3.00	20.00	125.00
No. 1	2.00	15.00	100.00

Gooseberries

	10	100
Pixwell		
3-yr., heavy	\$4.00	\$35.00
2-yr., No. 1	3.50	30.00
Houghton		
2-yr., No. 1	3.50	30.00

Asparagus

	100	1000
Washington		
3-yr., heavy	\$4.50	\$30.00
2-yr., No. 1	3.00	20.00
1-yr., No. 1	2.50	15.00

Red Rhubarb

	10	100
Canada Red, No. 1 Division	\$3.50	\$30.00
McDonald, No. 1 Division	3.50	30.00

Horseradish

	10	100
Cuttings, 4 to 6 ins.	\$1.00	\$4.50
Whole Roots	1.50	7.50

Victoria Rhubarb

	100	1000
1½ to 2 ins.	\$12.50	.....
1 to 1½ ins.	7.50	\$60.00
¾ to 1 in.	6.00	45.00
½ to ¾ in.	4.50	30.00

Blueberries

Rancocas, early; Rubel, midseason; Jersey, late

	Each	10	100
2-yr., 9 to 12 ins.	\$0.40	\$3.50	\$32.50
3-yr., 12 to 18 ins.	.55	5.00	47.50
4-yr., 18 to 24 ins., fruit buds	.75	7.00	67.50
5-yr., 24 to 36 ins., fruit buds	1.00	9.00	87.50

250 at 1000 rate.

Prices F.O.B. Bridgman, Mich.

Quantity prices upon request. All stock ready for immediate or future shipment. Ask for spring wholesale list.

TAXUS

Taxus cuspidata

15 to 18 ins.	\$2.75
18 to 24 ins.	3.25
2 to 2½ ft.	4.50
2½ to 3 ft.	5.25

Taxus intermedia

Same sizes, same prices as cuspidata.

Taxus hicksii

15 to 18 ins.	2.25
18 to 24 ins.	2.75
2 to 2½ ft.	3.25
2½ to 3 ft.	5.00

These are all heavy plants.

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	Each	Each	Each
	Per	Per	Per
	10	100	300
			and
			UP
Juniper, hetzi			
4000 15 to 18 ins., B&B..	\$1.50	\$1.35	\$1.10
2700 18 to 24 ins., B&B..	2.15	2.00	1.35
Juniper, Pfitzer			
12,000 12 to 15 ins., B&B	1.35	1.00	.85
3000 15 to 18 ins., B&B	1.50	1.35	1.10
Juniper, Von Ehron Globe			
3000 12 to 15 ins., B&B..	1.50	1.35	1.10
Juniper, Spiny Greek			
700 15 to 18 ins., B&B..	1.50	1.35	...
Juniper, Irish Fastigiata			
4000 24 to 30 ins., B&B..	1.50	1.35	1.10
Euonymus Sarcocoe, upright			
2000 15 to 18 ins., B&B..	1.75	1.50	1.35
2000 18 to 24 ins., B&B..	2.00	1.85	1.50
1000 24 to 30 ins., B&B..	2.75	2.25	1.85
Pin Oak			
2500 4 to 5 ft., B&B....	3.25	3.00	...
2000 5 to 6 ft., B&B....	4.50	4.00	...
200 6 to 8 ft., B&B....	6.50	6.00	...
Sweet Gum			
4000 4 to 5 ft., B&B....	3.00
500 5 to 6 ft., B&B....	4.00

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some native plants might carry the virus.

Virus Conference Planned

It was stated that the University of Illinois, Urbana, is planning a meeting on apple virus problems, in co-operation with the U. S. D. A., in which horticulturists, nurserymen, orchardists and entomologists will participate.

Dr. Shay, in giving the concluding remarks, again emphasized the spread of some of the virus disorders. He said that as yet the economic loss due to apple viruses is not known, but their import is still being assessed. Data is now being rapidly circulated. This is a critical period, he said, in selecting the most desirable type of tree for propagating use; rootstocks are being watched closely. A new bulletin, "Apple Virus Diseases," published jointly by the Maine agricultural experiment station and the New Hampshire agricultural experiment station, was announced.

RARE PLANT SALES

[Continued from page 15]

regular season of plant bloom, such plants as the Japanese dogwood, *Cornus kousa*, which blooms a month after the native *Cornus florida*; Japanese snowbell, which is covered with white, pendant bells in early June; Japanese *stewartia*, or showy *stewartia*, which bear their large flowers like single white camellias in July, and Chinese or Japanese witch hazel, which is in full bloom in the first thaw in February.

Add varieties which fruit heavily and make a spectacular show in the fall, such as the tea viburnum, *Viburnum setigerum*, with its glossy red berries; Zumi crab apple, *Malus zumi calocarpa*, with tiny, bright red fruits which last all through the fall, and our native winterberry, *Ilex verticillata*, which, when dug with a ball of soil, makes a spectacular fall salesyard plant and is surprisingly rare in cultivation.

Consider plants grown in special, unusual forms, such as *Cotoneaster horizontalis* trained up on a small espalier form in the container in which it is grown, ready to be planted at once against a wall, and flowering crab apples or magnolias also trained in espalier form. Such espaliers need not be the elaborate geometrical forms which take so many years to produce. A simple bending and flattening of the branches of a thin plant plus a little judicious trimming, will make a salable plant quickly. Such normally bushy plants as Wash-

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Beautiful Plants

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Ilex crenata convexa

Ilex crenata helleri

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Elaeagnus pungens compacta

Cornus florida

Flowering Crab Apple

All Specimen Stock

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SHADE TREES

Per 10 Per 100

Cornus florida (White-Flowering Dogwood)		
2 to 3 ft., 7/16-in. cal.	\$4.00	\$35.00
3 to 4 ft., 9/16-in. cal.	6.00	50.00
4 to 5 ft., 1 1/16-in. cal.	8.50	75.00
Acer saccharum (Sugar Maple)		
4 to 5 ft., T.	6.00	50.00
5 to 6 ft., T.	11.00	100.00
6 to 8 ft., T.	16.00	150.00
Acer dasycarpum (Silver Maple)		
5 to 6 ft., T.	6.00	50.00
6 to 8 ft., T.	8.50	75.00
8 to 10 ft., T.	11.00	100.00
Liriodendron tulipifera (Tulip Tree)		
4 to 5 ft., T.	3.50	25.00
5 to 6 ft., T.	6.00	50.00
6 to 8 ft., T.	8.50	75.00

NATIVE EVERGREENS

Collected Stock

Per 100 Per 1000

Rhododendron maximum , Kalmia		
latifolia , <i>Ilex opaca</i> and		
Tsuga canadensis		
3 to 6 ins., S.	\$3.00	\$20.00
6 to 9 ins., S.	4.00	30.00
9 to 12 ins., S.	6.00	50.00
12 to 18 ins., S.	8.00	70.00

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CONTAINERS—1, 2, & 3 gals.

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AZALEA Fedora	Per 100
12 to 15 ins., 2-gal.	125.00
15 to 18 ins., 3-gal.	160.00
CAROLINA JASMINE	Per 100
8 to 10 ins., 1-gal.	50.00
10 to 12 ins., 1-gal.	60.00
CLEYERA japonica	Per 100
12 to 15 ins., 1-gal.	60.00
GARDENIA fortunei	Per 100
12 to 15 ins., 1-gal.	60.00
GARDENIA radicans	Per 100
10 to 12 ins., 1-gal.	60.00
ILEX crenata convexa	Per 100
6 to 8 ins., 1-gal.	50.00
8 to 10 ins., 1-gal.	60.00
10 to 12 ins., 2-gal.	100.00
ILEX crenata helleri	Per 100
6 to 8 ins., 1-gal.	60.00
ILEX crenata hetzi	Per 100
8 to 10 ins., 1-gal.	60.00
10 to 12 ins., 2-gal.	100.00
ILEX crenata microphylla	Per 100
8 to 10 ins., 1-gal.	60.00
10 to 12 ins., 2-gal.	100.00
ILEX crenata repandens	Per 100
8 to 10 ins., 1-gal.	60.00
10 to 12 ins., 2-gal.	100.00
12 to 15 ins., 2-gal.	120.00
ILEX crenata rotundifolia	Per 100
10 to 12 ins., 1-gal.	60.00
12 to 15 ins., 2-gal.	100.00
ILEX crenata Stokes	Per 100
6 to 8 ins., 1-gal.	60.00
ILEX crenata, Seedlings	Per 100
6 to 8 ins., 1-gal.	50.00
10 to 12 ins., 2-gal.	100.00
12 to 15 ins., 2-gal.	120.00

PYRACANTHA lalandi	Per 100
15 to 18 ins., 1-gal.	\$ 60.00
18 to 24 ins., 2-gal.	120.00
24 to 30 ins., 2-gal.	160.00
PINUS caribaea (Slash)	Per 100
18 to 24 ins., 1-gal.	60.00

LINERS

AZALEA indica	Per 100	Per 1000
Formosa, 4-in. peat pot	\$22.00	\$200.00
Judge Solomon, 4-in. peat pot	22.50	200.00
Ledifolia Alba, 4-in. peat pot	22.50	200.00
Pride of Mobile, 4-in. peat pot	22.50	200.00
CLEYERA japonica (Ternstroemia), 2½-in. pots	17.50	150.00
GARDENIA fortunei, 2½-in. pots	17.50	150.00
ILEX cornuta femina, 2½-in. pots	17.50	150.00
ILEX crenata buxifolia, 2½-in. pots	17.50	150.00
Convexa, 2½-in. pots	17.50	150.00
Green Thumb, 2½-in. pots	22.50	200.00
Hetzi, 4 to 6 ins., C. T.	17.50	150.00
Kingsville, 2½-in. pots	17.50	150.00
Microphylla, 2½-in. pots	17.50	150.00
No. 400, 2½-in. pots	17.50	150.00
Repandens, 4 to 6 ins., C. T.	17.50	150.00
Rotundifolia, 4 to 6 ins., C. T.	15.00	125.00
Rotundifolia, 6 to 8 ins., C. T.	17.50	150.00
Stokes*, 2½-in. pots	22.50	200.00

LINERS — Continued

ILEX vomitoria nana (Dwarf Yaupon), 2½-in. pots	Per 100	Per 1000
Stokes, 2½-in. pots	\$22.50	\$200.00
LIRIOPE muscari, 2½-in. BIBS	7.50	50.00
MAGNOLIA grandiflora, 2½-in. pots	17.50	150.00
MUNDO japonica, 2½-in. pots	8.00	75.00
OSMANTHUS Fragrance, 2½-in. pots	17.50	150.00
Rotundifolius, 2½-in. pots	20.00	175.00
San Jose, 2½-in. pots	17.50	150.00
PODOCARPUS sinensis, 2½-in. pots	17.50	150.00
RAPHIOLEPIS umbellata, 2½-in. pots	17.50	150.00

FIELD-GROWN, B&B

AZALEA kaempferi Fedora	Per 100
15 to 18 ins.	\$120.00
18 to 24 ins.	140.00
AZALEA macrantha Double Pink	Per 100
10 to 12 ins.	85.00
12 to 15 ins.	100.00
AZALEA ledifolia alba	Per 100
15 to 18 ins.	100.00
18 to 24 ins.	120.00
ILEX crenata convexa	Per 100
10 to 12 ins.	100.00
12 to 15 ins.	140.00
18 to 24 ins.	175.00
24 to 30 ins.	200.00
ILEX crenata rotundifolia	Per 100
12 to 15 ins.	100.00
15 to 18 ins.	120.00
18 to 24 ins.	150.00
24 to 30 ins.	175.00

*Plant Patent No. 887. Please include 5c per plant for patent tags.
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ington hawthorn, Crataegus phaenopyrum, and Kwanzan cherry can be trimmed up into standard or tree form to make beautiful small flowering trees, which sell readily at premium prices.

"Story" Plants

Another class of rare plants with great commercial merit is those which have interesting stories connected with them. Such plants should be displayed with condensed versions of their story beside them at near eye level for easy reading. Many gardeners buy such plants to have a conversation piece in the garden (who knows, perhaps to show off their plantsmanship!). A good example of this group is the Dawn redwood, Metasequoia glyptostroboides, the tree which was considered to have become extinct 200 million years ago. Another is the Franklinia tree, Franklinia alatamaha, which disappeared in the wild and survived only through cuttings brought to Philadelphia in the saddlebags of one of our pioneer botanists, John Bartram.

Plants which have Biblical prominence have marvelous stories attached to them and are naturals for this type of presentation. Of perennial appeal and especial importance

BIG RIVER NURSERY MEANS QUALITY PLANTS

BIOTA AUREA NANA (Berckmans)	Each
24 to 28 ins.	\$1.25
BIOTA BAKERI	
42 to 46 ins.	1.25
THUJA WOODWARDI	
12 to 15 ins.	1.00
BIOTA BONITA	
20 to 24 ins.	1.25
JUNIPER, EXCELSA STRICTA	
16 to 20 ins.	1.00
JUNIPER, HETZI GLAUCA	
24 to 30-in. spread	1.25
30 to 36-in. spread	1.50
JUNIPER, VIRGINIANA KETEELEERI	
48 to 52 ins.	2.50
EUONYMUS PATENS (Small-leaved)	
24 to 28 ins.	1.00
EUONYMUS RADICANS	
18 to 24 ins.	1.00
ILEX OPACA (American Holly)	
30 to 36 ins.	1.50

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Each Each
Per 100 Per 1000

1-yr., 6 to 12 ins. . . 15c 12 1/2c
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FLOWERING CRAB APPLES

	Per 10	Per 100
2 to 3 ft., whips.	\$ 3.00	\$ 25.00
3 to 4 ft., whips.	4.00	25.00
4 to 5 ft., br., T.	7.50	60.00

Varieties: Almey, Eleyi, Hopa

SILVER MAPLES

5 to 6 ft., br., T.	5.00	45.00
6 to 8 ft., br., T.	7.50	60.00
1 1/4-in. cal., br., T.	10.00	90.00
1 1/2-in. cal., br., T.	15.00	125.00

LOMBARDY POPLARS

5 to 6 ft., br., T.	2.50	20.00
6 to 8 ft., br., T.	3.50	30.00
8 to 10 ft., br., T.	5.50	45.00

HALL'S JAPANESE HONEYSUCKLE

2-yr., field-run, T., \$40.00 per 1000

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Good Quality—Single Leaders
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is the Cedar of Lebanon, Cedrus libani, a fine conifer in its own right, which will always sell briskly because of its long and honorable history. Such plants need not be large specimens with enormous price tags. Indeed, moderate-size, container-grown specimens are ideal for marketing these special-interest plants, for they are easy to handle and within the range of everyone's purse.

Thus it can be seen how a judicious list of rare plants can be of enormous value to the welfare of the retail nursery. Being rare, the items are not competitive in price and do not attract chain store merchandisers. They add prestige to the nursery which lists and advertises them. Handled in moderation, they more than pull their own weight in the profit picture and suggest many effective advertising and novel display methods. There is no more useful weapon for the neighborhood nursery in its struggle for its share of the consumer's dollar.

GRANT AIDS PLANT INDEX

The National Science Foundation recently made a 2-year grant of \$178,600 for preparation of an international plant index at the Connecticut agricultural experiment station, New Haven, which is cosponsoring the project with the New York Botanical Garden. Work on the index will be directed by Sydney W. Gould, research associate of the experiment station and an authority on machine tabulation, who has been planning the procedures over a 10-year period and has in the past year prepared 35,000 punched cards in a pilot test of methods to be used.

He proposes to catalog some 1,700,000 Latin names of plants with a punched-card code suited to scientific classification. Cross indexes will make the information useful to researchers in many fields. Entries will be placed in desired orders by mechanical sorters, and tabulating machines will turn out pages of copy ready for offset printing.

Mr. Gould estimates that it would take 10 years for 50 people working without machines to compile the international plant index. Mr. Gould and his staff, aided by modern machines, expect to do one third of the job with two years' work of five people.

Mr. Gould says that the index will list, for the first time in one format, all known plant organisms and offers a practical way to record the areas in which each species of plant grows naturally. Such listings give clues to differences in climate

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	Each
3000 Leucothoe catesbaei, 6 to 15 ins., heavy, TT., S.	\$0.40
3000 Canadian Hemlock, 2 1/2 to 3 ft., sheared	3.25
1000 Abies fraseri, 2 to 3 ft.	2.50
500 Cornus florida, 4 to 5 ft.	3.50
500 5 to 6 ft.	4.50
5000 White Pine, TT., B. R. liners, sheared once	1.00

Collected, B&B

	Each
2000 Oxycandrum arboreum, 4 to 6 ft.	\$2.90
2000 6 to 8 ft.	4.00
	Per 1000
10,000 Kalmia latifolia, 6 to 9 ins., S.	\$ 75.00
10,000 Rhododendron maximum, 6 to 12 ins., S.	125.00
2000 Rhododendron catawbiense, 6 to 12 ins., S.	150.00
1000 Rhododendron carolinianum, 6 to 15 ins., S.	250.00

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Krider's is a well-known source for a complete assortment of top-quality, sure-to-grow roses at reasonable prices, roses that you can depend on. We also have our own modern cold storage facilities to keep 300,000 bushes in perfect condition throughout the season. Buy roses from us with confidence. We guarantee satisfaction.

We offer hardy, California-grown roses. They are bigger, heavier-branched and more evenly rooted, ideal for potting.

For individual machine-wrapped roses complete with colored picture on each bush, add 15c per plant.

PATENTED ROSES

Varieties of patented roses can be supplied in grade No. 1½ at 20% less than No. 1 grade.

	Each per 10	Each per 20	Each per 100		Each per 10	Each per 20	Each per 100
Blossomtime, new, pink everblooming climber, 2-yr., No. 1	\$1.50	\$1.35	\$1.30	Mojave, orange	\$1.50	\$1.37	\$1.30
Golden Showers, new, yellow everblooming climber	1.50	1.35	1.30	Montezuma, rose-salmon grandiflora, 2-yr., No. 1	1.50	1.37	1.30
Buccaneer, canary-yellow, 2-yr., No. 1	1.40	1.25	1.20	New Yorker, red, 2-yr., No. 1	1.40	1.25	1.20
Chrysler Imperial, red, 2-yr., No. 1	1.40	1.25	1.20	Pink Peace, large pink, 2-yr., No. 1	1.65	1.50	1.40
Fire King, vermillion-red, 2-yr., No. 1	1.25	1.15	1.05	Peace, yellow and pink, 2-yr., No. 1	1.40	1.25	1.20
Festival, thornless, red, 2-yr., No. 1	1.15	1.00	.95	Queen Elizabeth, pink grandiflora, 2-yr., No. 1	1.40	1.25	1.20
Garden Party, everblooming pink, 2-yr., No. 1	1.95	1.65	1.55	Starfire, currant-red grandiflora, 2-yr., No. 1	1.80	1.75	1.55
Helen Traubel, two-tone pink, 2-yr., No. 1	1.50	1.37	1.30	Sutter's Gold, deep gold, 2-yr., No. 1	1.25	1.12	1.05
June Bride, white grandiflora, 2-yr., No. 1	1.40	1.25	1.20	Surabande, Oriental red, 2-yr., No. 1	1.25	1.12	1.05
Kordes Perfecta, edged pink and white, 2-yr., No. 1	1.85	1.75	1.55	Sterling Silver, lavender, 2-yr., No. 1	1.65	1.50	1.40
Mirandy, dark red, 2-yr., No. 1	1.25	1.12	1.05	Gail Borden, orange, 2-yr., No. 1	1.65	1.50	1.40
				Arlene Francis, yellow, 2-yr., No. 1	1.65	1.50	1.40
				Duet, soft salmon-pink, 2-yr., No. 1	1.85	1.75	1.55

PATENTED FLORIBUNDA ROSES

Circus, multicolor, 2-yr., No. 1	1.40	1.25	1.20	Ivory Fashion, ivory, 2-yr., No. 1	1.50	1.37	1.30
Fashion, coral and red, 2-yr., No. 1	1.10	1.00	.95	Red Pinocchio, red, 2-yr., No. 1	1.00	.87	.80
Floradora, orange, 2-yr., No. 1	.60	.55	.50	Red Ripples, red, 2-yr., No. 1	.60	.55	.50
Fusilier, dark red, 2-yr., No. 1	1.40	1.25	1.20	Spartan, orange-red, 2-yr., No. 1	1.50	1.37	1.30
Gold Cup, canary-yellow, 2-yr., No. 1	1.40	1.25	1.20	White Bouquet, white, 2-yr., No. 1	1.40	1.25	1.20
Improved Lafayette, red, 2-yr., No. 1	.60	.55	.50	World's Fair, scarlet, 2-yr., No. 1	.65	.60	.55

NONPATENTED HYBRID TEA ROSES

Prices on roses below including climbers:

	Per 10	Per 100
First-class, 2-yr., No. 1, finest quality	\$5.50	\$50.00
First-class, 2-yr., No. 1½, finest quality	4.50	40.00

Red Varieties
Crimson Glory
Etoile de Hollande
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Poinsettia
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Blaze, red everblooming	American Beauty, red	Paul's Scarlet, scarlet	White Dawn, everblooming
Gold Rush, yellow everblooming	Talisman, two-tone	New Dawn, pink everblooming	Coral Pillar, everblooming

All orders of 50 or more roses at least 10 of a kind may take the 100 rate.

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and soils. More important, perhaps, the records can be easily found and adapted for many uses.

APPLES FOR SOUTHEAST

Early-season eating apples have been scarce on the nation's markets because production has been steadily declining in the past 30 years in the southeastern states, where frequent attacks of black spot and fire blight cut yields and quality, while late spring frosts at times destroyed the entire crop.

Now long-term apple breeding research has been begun at the Georgia mountain experiment station, Blairsville, under the leadership of Dr. J. B. Hardigree, of the United States Department of Agriculture. Varieties

of red apples are sought with good culinary and dessert qualities, as well as shipping merit. The varieties must mature early enough for the fresh apple market and bloom late enough to reduce hazard from spring frosts. Fungicides can control black spot, and a search is being made for stocks resistant to fire blight and other diseases.

Some 60 different varieties were planted at Blairsville in the spring of 1960, and an equal number will probably be added this year. Of course, fruiting results will not be obtained for five to eight years.

Co-operatively, the Virginia agricultural experiment station is making crosses in orchards at Blacksburg, where an outstanding collection of standard apple varieties and selec-

tions from other experiment stations have been maintained for years. Seeds from these crosses, planted at Blairsville, will give scientists a head start in actual breeding and selection of improved varieties.

TEXAS TREE SALE

The San Antonio Nurserymen's Association this year took over the Texas city's annual tree sale, a continuing community beautification project directed for the past eight years by the chamber of commerce. Over 20 nurseries in the city co-operated in the sale, offering 4 to 7-foot sycamore, mimosa, silver maple, redbud, cottonwood and Arizona ash trees at prices ranging from 30 to 60 cents each.



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

CENTRAL CHAPTER

Approximately 85 members and guests of the Central chapter of the California Association of Nurserymen met February 14 at Spengers Fish Grotto, Berkeley, Calif.

The program consisted chiefly of a panel discussion of questions asked by members. Composing the panel were Channing Jones, general merchandising manager, Ortho Division, California Chemical Corp., Richmond; Ernest Wertheim, landscape architect and consultant, San Francisco; Martin Rockey, Pettler Advertising, Inc., Orinda, and George Lincer, vice-president, C. M. Volkman & Co., San Francisco.

Concerning a question on the quantity of stock and the number of varieties of the same item that a garden shop should carry, Mr. Jones recommended carrying not more than one or two brand names, to keep down duplication of material and reduce inventory to a minimum.

To a question concerning the desirable size for a good garden center, Mr. Wertheim replied that the decision should be based on the number of people to be served in the area and the amount of capital available. He stated that today's modern garden center should consist of one to two acres, be well planned to take care of customers' needs, be equipped for self-service and have good parking facilities.

An inquiry on the necessity of advertising was answered by Mr. Rockey, who stressed the need of promotion to maintain traffic at the nursery.

Lloyd T. Reeves, Sec'y.

REDWOOD EMPIRE CHAPTER

February 14, the Redwood Empire chapter of the California Association of Nurserymen held a meeting at the Saddle and Sirloin restaurant, Santa Rosa, with an attendance of about 20. President Ruth Cullen, Rincon Nursery, Santa Rosa, presided.

Members were informed that mat illustrations of shrubs for advertising use could be obtained from the C. A. N. headquarters. These were made available through the advertising assessment. President Cullen

announced that the directors would take further action on the chapter bylaws preceding the March meeting. The April meeting will be held at Santa Rosa and will honor past presidents of the chapter.

Paul Clark suggested that the directors discuss at the March meeting the possibility of having landscape contractors bonded with the department of agriculture, as are brokers. He further recommended that the chapter director vote in favor of such a recommendation. The suggestion received a unanimous vote affirmatively.

Credit System Described

Mr. Truzzolino, manager for the Santa Rosa branch of the Bank of America, talked on the Bank Americard credit plan. He described it as the most successful of the bank's credit plans. In operation a year and one half, it has more card holders than all the other credit

plans in the country combined, he stated. This is due to the wide area served and the large number of branch banks. At the present time there are 811,866 active card holders and over 300,000 inactive accounts. Merchant members exceed 29,000.

In one week ending January 28, over \$1,051,000 worth of sales were made using the Bank Americards and over \$28,000,000 were outstanding at the same time. This proves what an effective method of merchandising this is and how it can be valuable to small businesses. It reduces their accounts receivable and makes the money available for further merchandising. And it is done at a cost less than the cost of billing the accounts receivable.

The cost to the merchant varies from 3 to 5 per cent, depending upon the classification of the business. Nursery rates are 3 per cent of the drafts. A customer does not have to bank with the Bank of America, and the merchant only has to have an account to facilitate clearing the drafts. Enrollment fee for the merchant is \$25, and there is no fee for the customer. New card holders can be signed up by the merchant. Cards are good for charges up to \$100, but larger amounts can be authorized by call-

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Hardy and semihardy varieties.
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ing the bank. All drafts, within the authorized limits, are accepted by the bank without recourse.

The customer makes payment to the bank. Paying within 30 days is considered cash and costs the customer nothing. Otherwise he pays 1½ per cent on the unpaid balance.

Before closing, President Cullen thanked Ruth Clark for the table decorations, which were created with a valentine theme.

Hugh Wallace, Sec'y.

LOS ANGELES CHAPTER

The Los Angeles chapter of the California Association of Nurserymen met January 25 in the ornamental horticulture building, which had been decorated with exhibits by the students of the Kellogg campus, California Polytechnic Institute, Pomona.

Ollie Batcheller, head of the department of ornamental horticulture, thanked the chapter for its continuing help with scholarships at the college and announced that students present were prepared to conduct tours of the greenhouses so that the nurserymen could view the work in progress.

After a potting contest between Charles King, a student at Cal Poly, and Robert Bartholomew, Hi-Mark Nursery, Santa Ana, which was a tie, slides on the misuse of plant materials in landscaping were presented by Dale Johnson, also a student.

Elmer Merz, executive secretary of the C. A. N., presented the C. A. N. scholarship award to Charles King; Dave Fleming was the alternate winner. Other students receiving scholarships as designated were Martin Stoner, recipient, and John Probine, alternate, the Rosedale Nursery award; Al Saucedo, recipient, and Gil Dominguez, alternate, the Kellogg Supply award, and Steve Goodman, recipient, and Ronald Miller, alternate, the Bandini Fertilizer Co. award. All winners are students at the California Polytechnic Institute.

Jim Meadows, Secy.

CALIFORNIA ARBORISTS

The California Association of Arborists met February 15 in the Max J. Leonard building, Redwood City. This building was known as the Agricultural building until February 1, when it was renamed by the county board of supervisors in honor of the recently retired agricultural commissioner.

Previous to the meeting, invitations were sent to about 40 non-

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ACER PLATANOIDES

Faassen's Red-Leaved Maple		
	Per 10	Per 100
6 to 8 ft., br.....	\$35.00	\$325.00
5 to 6 ft., br.....	25.00	225.00
8 to 9 ft., whips....	30.00	225.00
7 to 8 ft., whips....	25.00	210.00
6 to 7 ft., whips....	21.00	150.00
5 to 6 ft., whips....	16.00	140.00
4 to 5 ft., whips....	13.00	110.00
3 to 4 ft., whips....	10.00	85.00

Norway Maple

12 to 14 ft., br....	35.00	325.00
10 to 12 ft., br....	30.00	275.00
8 to 10 ft., br....	25.00	225.00
6 to 8 ft., br....	20.50	180.00
5 to 6 ft., br....	15.00	135.00
8 to 9 ft., whips....	10.50	100.00
7 to 8 ft., whips....	10.00	95.00
6 to 7 ft., whips....	9.50	90.00
5 to 6 ft., whips....	8.00	75.00
4 to 5 ft., whips....	6.00	55.00

Columnar Norway Maple

3-yr., 11 to 12 ft....	33.50	310.00
3-yr., 10 to 11 ft....	30.00	275.00
2-yr., 9 to 10 ft....	27.50	250.00
2-yr., 8 to 9 ft....	25.00	225.00
2-yr., 7 to 8 ft....	22.00	195.00
2-yr., 6 to 7 ft....	18.50	170.00
1-yr., 5 to 6 ft....	15.50	140.00
1-yr., 4 to 5 ft....	12.00	110.00
1-yr., 3 to 4 ft....	10.00	90.00

Drummond's Norway Variegated Maple

6 to 8 ft., br.....	28.50	260.00
5 to 6 ft., br.....	23.50	210.00
8 to 9 ft., whips....	21.00	185.00
7 to 8 ft., whips....	20.00	175.00
6 to 7 ft., whips....	18.00	165.00
5 to 6 ft., whips....	14.50	130.00
4 to 5 ft., whips....	10.00	90.00

ACER PSEUDOPLATANUS

Improved Spaethi		
12 to 14 ft., br.....	37.50	350.00
10 to 12 ft., br.....	32.50	300.00
8 to 10 ft., br.....	27.50	250.00
6 to 8 ft., br.....	22.50	200.00
5 to 6 ft., br.....	16.50	150.00
6 to 7 ft., whips....	12.50	115.00
5 to 6 ft., whips....	10.00	90.00
4 to 5 ft., whips....	8.00	70.00

ACER RUBRUM

(Red Maple)		
10 to 12 ft., br.....	32.50	300.00
8 to 10 ft., br.....	27.50	250.00
6 to 8 ft., br.....	22.50	200.00
5 to 6 ft., br.....	16.50	150.00
4 to 5 ft., br.....	12.50	115.00

ACER SACCHARUM

MONUMENTALE (Columnar Sugar Maple)		
8 to 10 ft., br.....	27.50	250.00
7 to 8 ft., whips....	25.00	225.00
6 to 7 ft., whips....	22.50	200.00
5 to 6 ft., whips....	20.00	175.00
4 to 5 ft., whips....	17.50	150.00
3 to 4 ft., whips....	15.00	125.00

BETULA ALBA

(European White Birch)		
12 to 14 ft., br.....	35.00	325.00
10 to 12 ft., br.....	27.50	250.00
8 to 10 ft., br.....	22.50	200.00
6 to 8 ft., br.....	16.50	150.00
5 to 6 ft., br.....	12.00	110.00
4 to 5 ft., br.....	9.00	85.00
3 to 4 ft., br.....	6.50	60.00

FRAXINUS QUADRANGULATA

(Blue Ash)		
10 to 12 ft., br.....	37.50	350.00
8 to 10 ft., br.....	32.50	300.00
6 to 8 ft., br.....	27.50	250.00
5 to 6 ft., br.....	22.50	200.00
6 to 7 ft., whips....	18.00	165.00
5 to 6 ft., whips....	15.00	135.00
4 to 5 ft., whips....	12.00	105.00

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member arborists and agricultural pest control operators who are eligible for membership. Of the 40 invited, about 20 attended, and 10 made application for membership before leaving the hall.

The guests were given an official welcome by President Leslie Mayne, Mayne Tree Service, San Mateo, who gave some of the history of the association and reported on some of its more recent activities.

Next to speak was John Davis, Davis Tree Surgeon, Menlo Park, a past president, who told how the members assist each other in lending expensive but seldom used equipment or workers who are specialized in some detail of the profession. He cited a case in which he borrowed equipment from one arborist to facilitate removal of some large oak trees and borrowed two foremen from two other arborists, making it possible to have workers at all points of the digging, moving and replanting under the direction of experts in their work.

Report on Palo Alto

The committee appointed to examine Palo Alto, the tall tree at the outskirts of the city of Palo Alto from which the city took its name, made its report. The tree is well over 100 feet high and has been a local landmark for over a century. It was cabled and otherwise braced several years ago. It was felt by the city park authorities that further deterioration might be setting in, and the arborists' association, as a public relations activity, undertook to examine the tree and make recommendations regarding its treatment or possible removal.

The city fire department brought its extension ladder wagon to the site, and several arborists went as high as the 130-foot level to examine the tree. The general consensus of the committee was that the tree can be preserved for many years if minor surgery is done on it. The city of Palo Alto will do any work that is required, using its own employees.

George Hood, Arbor day committee chairman, reported that the association will officially sponsor two activities. One will be the setting out of several trees at the new site of a Mountain View school. The second will be the planting of hybrid oak in a San Mateo park. The site will be selected by Stanley Pitcher, parks director, city of San Mateo. The planting will be made in honor of Mr. Pitcher in recognition of the fine work he has done for that city's park system in the past 25 years.

The speaker of the evening was

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Oregon ENGLISH HOLLIES

Teufel's Hybrid, female, our very best hardy holly.

Teufel's Silver Variegated argentea-marginata

Over 50 varieties of the best English Hollies.

Heavy liners, shipped in 3-in. plastic pots, 45c each; \$31.50 per carton of 70 plants.

3-yr., 12 to 15 ins., br., B&B, \$2.00 each

4-yr., 15 to 18 ins., br., B&B, \$2.50 each

5-yr., 18 to 24 ins., bushy, B&B, \$4.00 each

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Walter B. Balch, a pesticide and fertilizer broker. He told of some of the newer pesticides registered in California for use on ornamentals. He named those he considers the safest for agricultural pest control operators to use near homes and in urban areas, which pests these materials best control, what materials they might replace and the comparative costs of each.

After adjournment, coffee and doughnuts were served during the social hour. The next meeting was announced for March 5 at the same place, with David Rayner, commissioner of agriculture, Santa Clara county, as the guest speaker.

OREGON ADVISORY GROUP REPORTS ON TEST PLOTS

The Multnomah county nursery advisory committee met at the extension office, Gresham, Ore., January 30. Present were Hans Nelson, Nelson Rose & Holly Farm; Arthur Suhr, Mount Hood Nursery; Dan Schmidt, Schmidt Bros. Nursery, and Frank Morishita, all of Troutdale; Joe Klupenger, Klupenger Nursery & Greenhouses, and Edsal Wood, Wood Floral Co., both of Portland, and Stanley Nuffer, Mountain View Nurseries; Robert

and Harry Carlson, Harry J. Carlson & Son; Harry Park, and Ray McNeilan, county agent, all of Gresham.

Mr. McNeilan reported on the insect control plots, disease control plots and fertilizer control plots which were established in 1960. The committee agreed on the following: (1) Trying Morton C soil drench on seedbeds in nurseries; (2) continuing use of herbicide plots; (3) continuing use of azalea fertilization test

plots at Wood Floral Co. and establishing tests to determine optimum fertilizer balances for ornamentals, optimum pH requirements, use of minor elements and fertilizer requirements for roses; (4) continuing insect control plots for the birch-leaf miner, using systemics, and a borer affecting conifers; (5) establishing birch-leaf rust disease control plots; (6) continuing the grower educational meetings after the current series has ended, and continuing Agent

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McNeilan's television programs of benefit to the nursery industry.

The committee urged tours by Oregon Association of Nurserymen chapter members to the various demonstration plots and to the North Willamette branch experiment station during the summer.

C. H. P.

OREGON CHAPTER MEETS

The Sunset chapter of the Oregon Association of Nurserymen met at the Mayfair House, Sylvan, Ore., February 20, with President William Curtis, Wil-Chris Acres, Sherwood, leading the meeting.

Mrs. Julia Hausch, Roseway Nurseries, Beaverton, on behalf of the chapter, presented Mrs. Helen Walters, Charles E. Walters Wholesale Nursery, Hillsboro, with a money tree and Mrs. William Curtis with a gift in recognition of their work on the "Chapterama" act at the O. A. N. convention. Carlton Nursery, Forest Grove, and Cedar Mills Nursery, Portland, donated prizes for the evening.

Pat Dering, Peterson & Dering, Scappoose, told about a home being built by Kiwanians and townspeople of Scappoose for a young man who received permanent injuries in a fall from a tractor. He described the need for landscaping the home, and the Sunset chapter, by unanimous vote, agreed to furnish the plants and the landscaping for the job which will be done this spring as a chapter project. Pat Dering will co-ordinate the project, and Charles Drew, Drew's Nursery, Beaverton, and Mrs. Norble will work on landscaping plans for the home.

Dr. Robert Ticknor, North Willamette experiment station, Aurora, gave an illustrated talk on the weed-control experiments being conducted at the station.

C. H. P.

OREGON NOTES

Sam Rich, chairman of the Oregon Association of Nurserymen's legislative committee, and W. P. Nuffer, Mountain View Nurseries, Gresham; James Doty, Doty & Doerner, Inc., Portland; Hans Nelson, Nelson Rose & Holly Farm, Troutdale; Arthur Suhr, Mount Hood Nursery, Gresham, and O. A. N. executive secretary Merv Belknap attended a committee hearing on house bill 1034 and amendment 1036 at the state Capitol building at Salem recently. The bill was aimed at taxation of growing nursery products. Other interested groups also were

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SEEDLINGS have been root-pruned to insure a good root system. The 3-yr. seedlings have also been cut back, to make a more bushy, compact plant.

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represented to protest the bill. The legislative committee voted to table the bill for this session of the legislature.

Over 60 persons attended the dinner meeting of the Rose City chapter of the O. A. N. February 15, which was led by President Ed Schultz, Calorwash Nursery, Portland. Speaker for the evening was Dr. George White Allen, who formerly was connected with a missionary hospital in Nigeria and later was in Kenya, Africa. He told about the development of the Mau Mau movement and other underlying factors of unrest in Africa. This was followed by a discussion on annexation and highway construction plans in the Portland area which might affect nurseries.

The Emerald Empire chapter of the O. A. N. met at Springfield February 16.

E. P. Dering, Peterson & Dering, Scappoose, was the speaker at the meeting of the Salem chapter of the American Rose Society February 20. He gave an illustrated talk on famous rose gardens he had visited and discussed the new roses being introduced by his firm.

The number of fir and pine trees produced during 1960 by the United States forest service and state nurseries in Washington and Oregon and planted on 43,000 acres of national forest land totaled 23.5 million, according to an announcement by Walter H. Lund, assistant regional forester, United States forestry service.

A quarterly meeting of the Oregon Society of Landscape Architects was held at Salem February 11. Program chairman was Wilbur W. Weed, Eugene, assisted by Wes J. Kvarsten and Mrs. Eunice C. Brandt, both of Salem.

R. Ralph Clark, extension horticulturist, Oregon State College, Corvallis, and Ray McNeilan, Multnomah county extension agent, Gresham, conducted an ornamental pruning demonstration February 18 at the Multnomah county juvenile home at Portland. C. H. P.

CALIFORNIA NOTES

Dr. Lawrence Petersen, department of plant pathology, University of California at Davis, and Peter Lert, Santa Clara county farm adviser were the speakers on plant diseases at the last session of five, held February 23, in the Cupertino high school. The subject was "Diseases of Trees, Shrubs and Turf." Other speakers on the school program were all from the University and covered

[Continued on page 143]

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Forms for May 1 issue will close Friday, April 14.

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2 1/2-in. up, mammoth	20.00	175.00

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PICOTEE, bicolor red and white double flowered.

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Terms: F.O.B. Foley, Ala.; C.O.D. unless credit established. 5 per cent discount, cash with order; additional 5 per cent discount on orders \$250.00 and over.

HILLSBOROUGH BULB CO.
P. O. Box 530A Foley, Ala.

TUBEROUS BEGONIAS

Belgium-grown, clean, healthy tubers.

Double flowering Camellia type. Choice 8 colors.

1 1/2 to 1 3/4-in., 80, 10 each color. \$8.00 postpaid

1 1/2 to 2-in., 80, 10 each color. \$10.00 postpaid

2-in. up, 80, 10 each color. \$13.50 postpaid

Pendula (hanging basket type), 6 colors, or marginata.

1 1/2 to 2-in., 60, 10 each color. \$10.00

2-in. up, 60, 10 each color. \$12.50

Lots of 240 or more, discount 10 per cent.

VAN ENGEL'S NURSERY
206 Richard Ave. Kalamazoo 33, Mich.

MICHIGAN-GROWN GLADIOLI

We would like to have you try our bulbs.

These mixtures contain many good colors.

Per 1000 Gladiolus bulbs Nos. 1 2 3

Giant EXHIBITION MIXTURE. \$25 \$20 \$15

Fancy EXHIBITION MIXTURE. \$30 \$24 \$19

Net cash with order. F.O.B. Dowagiac.

GEO. W. HUNTER, Grower
Route 3 Our 44th year. Dowagiac, Mich.

GLOXINIAS

In LEADING varieties.

	Per 100	Per 1000
--	---------	----------

EXHIBITION size, 2 1/2-in. up. \$28.00 \$260.00

2 to 2 1/2-in. 23.00 220.00

1 1/2 to 2-in. 16.00 150.00

Minimum order \$10.00.

VERONA GARDENS, TED GREYERS
Route 5 Battle Creek, Mich.

Cannas, 2 to 5-eye divisions, grown on sandy, irrigated and fertilized land: Red King

Humbert, Yellow King Humbert, City of

Portland, pink, \$5.00 per 100, \$45.00 per 1000.

The President, red, \$6.00 per 100, \$55.00 per 1000.

Cash or check with order, please.

Ray's Feed, Seed and Nursery, Box 1305,

Levelland, Tex.

CANNAS

City of Portland, pink.

Richard Wallace, yellow.

No. 1 tubers, \$35.00 per 1000.

Large stock, ready now.

OZARK NURSERIES, TAHLEQUAH, OKLA.

Dahlias, exhibition varieties: Orfeo, P. of

H. and Bronze I. C.; Jersey Beauty, D-Day.

Huge Bronze, Orchid, Red, Gold F. D., 100,

\$15.00; 1000, \$120.00. Rainbow Mix, 100,

\$12.00; 1000, \$100.00. Adams Flower Gardens,

New Martinsville, W. Va.

Cannas, northern-grown: The President,

Red and Yel. Humbert, Mme. Crozy, Hun-

garia, R. Wallace. Bulbs, 150, \$10.00; 1000,

\$60.00, f.o.b. Adams Flower Gardens, New

Martinsville, W. Va.

MEXICAN SINGLE TUBEROSES
\$35.00 per 1000. Large No. 1 size bulbs, ready now. Order today.
OZARK NURSERIES, TAHLEQUAH, OKLA.

BUXUS

BOXWOOD

Buxus semp. VARDAR VALLEY

1-yr. pots \$0.35 ...

2-yr. pots45 ...

Buxus semp. WELLERI

3-yr. pots30 \$0.27 1/2

Buxus semp. INGLIS

3-yr. pots30 .27 1/2

MITISKA NURSERY
Amherst, O.

Buxus sempervirens (Boxwood), \$ to 10

ins., 2-yr., \$9.00 per 100, \$85.00 per 1000; 1-yr.

plants, 12 to 14 ins., \$10.00 per 100, \$90.00

per 1000.

Spring Acres Nursery, Morris, Ga.

Old English dwarf Boxwood, pretty, well-

rooted plants, 4 to 6 ins., \$10.00 per 100,

\$90.00 per 1000.

Tidwell Nurseries, Greenville, Ga.

CHESTNUTS

Chinese Chestnut trees, Abundance strain.

Per 10 Per 100

12 to 18 ins., T. \$3.50 \$30.00

18 to 24 ins., T. 5.00 40.00

2 to 3 ft., T. 7.00 60.00

3 to 4 ft., T. 9.00 60.00

4 to 5 ft., T. 14.00 125.00

50 trees at the 100 rate.

Kerstetter's Nursery, 2743 Boas St., Har-

risburg, Pa.

CHINESE CHESTNUTS, SELECTED STRAIN

All branched trees.

Each, 1-9 10-29 30 up

2 to 3, 3-yr. \$0.95 \$0.85 \$0.75

3 to 4, 3-yr. 1.20 1.10 1.00

4 to 5, 4-yr. 1.45 1.35 1.25

Write for complete catalog.

COMMERCIAL NURSERY CO.

Decherd, Tenn.

CHRYSANTHEMUMS

HUSKY GARDEN ROOTED CUTTINGS

Cream of the crop.

Originating from ALL the breeders.

With sales magic and strong roots.

Most profitable LIST in the trade.

FARM OF PASCHKE, NORTH EAST, PA.

HARDY GARDEN MUMS

Strong rooted cuttings, \$8.00 per 100, \$65.00

per 1000. Send for list of 150 good varieties.

THON'S PERENNIAL GARDENS

25 W. Golf Rd. Arlington Heights, Ill.

Dept. A Phone HE 7-3184

HARDY CHRYSANTEMUMS, IN FIELD

Divisions available this spring.

Send for price list of varieties.

W. S. YOE NURSERIES

Madison, O.

HARDY CHRYSANTEMUMS

Rooted cuttings. Send for spring list.

SUNBURY GREENHOUSES

Warner Breech Sunbury, O.

Garden Mums, rooted cutting list now

ready. Extra discount on early orders. Send

for yours today.

Fairview Nursery, Coon Rapids, Ia.

Hardy Mums, rooted cuttings, pot plants.

Ask for list of finest new varieties and better

older ones. Home Nursery, Cuba, Kan.

CLEMATIS

CLEMATIS VINES

Large flowering, from 4-in. pots.

Blooming size, 1-yr. frame,

\$5c each.

Gypsy Queen, purple

Lanuginosa candida, white

Ernst Markham, red

Lawsoniana, sky-blue.

Ville de Lyon, red.

Plants shipped bare-root.

Cash with order.

FOUR STAR NURSERY

8215 238th St. W. Edmonds, Wash.

CLEMATIS VINES

QUALITY LARGE-FLOWERING HYBRIDS

20 OUTSTANDING VARIETIES

AVAILABLE

FOR SPRING AND FALL SHIPMENTS

FROM 4-IN., 3-IN., 2 1/2-IN. POTS

GREENHOUSE-GROWN

DELPHINIUMS—Continued

DELPHINIUMS
ALL VARIETIES, INCLUDING PACIFIC
HYBRIDS, IN ALL COLORS AND MIXED.
PLANTS GROWN IN OPEN FIELDS,
PROPERLY SPACED FOR ROOT AND
PLANT DEVELOPMENT, UNDER IRRIGA-
TION. ALL SAND-GROWN. ORDER NOW
FOR IMMEDIATE SHIPMENT AS WELL
AS SPRING DELIVERY. SEND FOR NEW
WHOLESALE PERENNIAL CATALOG
COVERING MANY VARIETIES.

RICHARDS GARDENS
Box AN Plainwell, Mich.

DOGWOODS

PINK DOGWOOD		
<i>Cornus florida rubra</i> (1-yr.)		
	Each	Per 100
6 to 12 ins.	\$0.40	\$40.35
12 to 18 ins.	.50	45
18 to 24 ins.	.60	55
24 to 30 ins.	.85	75
3 to 3 ft.	1.25	115
3 to 4 ft.	1.50	140
4 to 5 ft.	2.50	225
5 to 6 ft.	3.50	300

WHITE-FLOWERING DOGWOOD

<i>Cornus florida</i> (2-yr.)		
	Each	Per 100
4 to 5 ft., br.	\$1.25	\$100
3 to 4 ft., br.	.90	60
2 to 3 ft., br.	.50	40
18 to 24 ins., br.	.30	20
12 to 18 ins., br.	.15	10

GALE'S DOGWOOD NURSERY
P. O. Box 411 Winchester, Tenn.

CORNUS FLORIDA RUBRA

(Pink Dogwood)		
Northern-grown, sheared tops.		
3 to 4 ft., B&B	\$ 3.75	
4 to 5 ft., B&B	5.00	
5 to 6 ft., B&B	6.50	
6 to 7 ft., B&B	8.00	
7 to 8 ft., B&B	15.00	

Pickup at nursery.
BROOKVILLE NURSERIES
Box 53, Northern Blvd., Glen Head, L.I.N.Y.

PINK DOGWOOD

Budded on transplanted seedlings.		
	Per 100	
1 and 2-yr., 2 to 3 ft., bare-root	\$100.00	
2-yr., 3 to 4 ft., bare-root	150.00	
2-yr., 4 to 5 ft., bare-root	200.00	
2-yr., 4 to 5 ft., B&B	250.00	

Pickup only.
SURREY RIDGE NURSERIES
79 Timberpoint Dr. Northport, N. Y.

EUONYMUS

EUONYMUS LINERS		
ROOTED CUTTINGS from open frame.		
	Per 100	Per 1000
E. fortunei coloratus	\$6.50	\$45.00
E. patens	6.50	45.00
E. patens, small leaf	6.50	45.00

Pickup only.
FOX NURSERY, HUMANSVILLE, MO.

EVERGREENS, Liners

POTTED FIELD LINERS		
	Per 100	Per 1000
<i>Taxus capitata</i>		
2-yr. seedlings, 4 to 6 ins.	\$ 8.00	\$ 75.00
3-yr. seedlings, 8 to 12 ins.	12.00	100.00
T, 10 to 15 ins.	35.00	300.00

Special discount on large quantities.

<i>Taxus media</i> Adams		
8 to 12 ins.	\$24.00	\$220.00
4-yr., TT, field, 12 to 18 ins.	40.00	350.00

<i>Taxus media</i> andersoni		
2-yr., 2 1/4-in. Rose pots,		
8 to 12 ins.	25.00	225.00
3-yr., TT, field, 6 to 12 ins.	35.00	300.00
5-yr., TT, field, 12 to 15 ins.	75.00	650.00

<i>Taxus media</i> brownii		
2-yr., 2 1/4-in. Rose pots,		
8 to 12 ins.	25.00	220.00
3-yr., TT, field, 8 to 12 ins.	40.00	350.00
4-yr., TT, field, 12 to 15 ins.	50.00	450.00

<i>Taxus capitata</i> (seedling-grown)		
4-yr., 2 1/4-in. Rose pots,		
8 to 12 ins.	25.00	220.00
4-yr., T, field, 10 to 12 ins.	35.00	300.00
5-yr., TT, field, 12 to 15 ins.	50.00	450.00

<i>Taxus media</i> clifforti		
2-yr., 2 1/4-in. Rose pots,		
8 to 12 ins.	25.00	220.00
3-yr., TT, field, 8 to 12 ins.	40.00	350.00
4-yr., TT, field, 12 to 15 ins.	45.00	400.00

<i>Taxus cuspidata</i>		
2-yr., 2 1/4-in. Rose pots,		
6 to 12 ins.	24.00	220.00
3-yr., TT, field, 8 to 12 ins.	35.00	300.00
4-yr., TT, field, 12 to 15 ins.	45.00	400.00

<i>Taxus cuspidata</i> improved		
2-yr., 2 1/4-in. Rose pots,		
6 to 12 ins.	25.00	220.00
3-yr., TT, field, 8 to 12 ins.	40.00	350.00
4-yr., TT, field, 12 to 15 ins.	65.00	600.00

<i>Taxus cuspidata</i> densiformis		
2-yr., 2 1/4-in. Rose pots,		
6 to 12 ins.	27.50	250.00
3-yr., TT, field, 8 to 12 ins.	35.00	300.00
4-yr., TT, field, 12 to 15 ins.	35.00	300.00

(Continued in next column)

(Continued from previous column)

<i>Taxus media</i> hatfieldi No. 18		
2-yr., 2 1/4-in. Rose pots,		
6 to 12 ins.	25.00	220.00
3-yr., TT, field, 8 to 12 ins.	35.00	300.00
4-yr., TT, field, 12 to 15 ins.	50.00	450.00
5-yr., TT, field, 12 to 15 ins.	75.00	650.00

<i>Taxus media</i> heasleyi		
2-yr., 2 1/4-in. Rose pots,		
8 to 12 ins.	27.50	250.00
3-yr., TT, field, 8 to 12 ins.	37.50	350.00

<i>Taxus media</i> hicksii		
2-yr., 2 1/4-in. Rose pots,		
6 to 12 ins.	25.00	220.00
3-yr., TT, field, 8 to 12 ins.	35.00	300.00
4-yr., TT, field, 12 to 15 ins.	50.00	450.00
5-yr., TT, field, 12 to 15 ins.	75.00	650.00

<i>Taxus intermedia</i> (Sebian strain)		
2-yr., 2 1/4-in. Rose pots,		
6 to 12 ins.	27.50	250.00
3-yr., TT, field, 6 to 12 ins.	40.00	350.00

<i>Taxus media</i> Moon's		
2-yr., 2 1/4-in. Rose pots,		
6 to 12 ins.	25.00	220.00
3-yr., cusp. vermiculeni		
2-yr., 2 1/4-in. Rose pots,		
6 to 12 ins.	25.00	220.00
3-yr., TT, field, 8 to 12 ins.	35.00	300.00

<i>Taxus media</i> wymani		
3-yr., TT, field, 6 to 12 ins.	35.00	300.00
Juniper, Andorra compacta		
2-yr., TT, field, 6 to 12 ins.	30.00	275.00
3-yr., TT, field, 8 to 12 ins.	40.00	350.00

<i>Juniperus glauca</i> hetzi		
1-yr., 2 1/4-in. Rose pots,		
4 to 6 ins.	18.00	175.00
2-yr., 2 1/4-in. Rose pots,		
6 to 8 ins.	25.00	220.00
2-yr., TT, field, 6 to 12 ins.	30.00	275.00

<i>Juniper</i> , cut backs,		
8 to 12 ins.	35.00	300.00
4-yr., TT, cut backs,		
12 to 15 ins.	50.00	450.00

<i>Juniperus chinensis</i> nelsoni		
3-yr., TT, field, 6 to 8 ins.	25.00	250.00
3-yr., TT, field, 8 to 12 ins.	35.00	300.00
4-yr., TT, field, cut backs,		
12 to 15 ins.	50.00	450.00

<i>Juniperus chinensis</i> pfitzeriana		
1-yr., 2 1/4-in. Rose pots,		
4 to 6 ins.	20.00	180.00
3-yr., TT, field, 12 to 15 ins.	35.00	300.00
4-yr., TT, field, cut backs,		
12 to 18 ins.	45.00	400.00

<i>5-yr.</i> , TT, field, cut backs,		
12 to 18 ins.	65.00	500.00
<i>Thuja occ.</i> , American		
4-yr., TT, field, cut backs,		
24 to 30 ins.	75.00	650.00

<i>Thuja occ.</i> , elegantissima,		
3-yr., TT, field, 12 to 15 ins.	35.00	300.00
<i>Thuja occ.</i> , Hetz's Wintergreen		
3-yr., TT, field, 12 to 15 ins.	35.00	300.00
4-yr., TT, field, cut backs,		
18 to 24 ins.	50.00	450.00

<i>Thuja occ.</i> , pyramidalis		
3-yr., TT, field, 12 to 15 ins.	35.00	300.00
<i>Thuja occ.</i> , woodwardi		
1-yr., 2 1/4-in. Rose pots,		
4 to 6 ins.	20.00	175.00

<i>4-yr.</i> , TT, field, 8 to 12 ins.		
35.00		
4-yr., TT, field, 12 to 15 ins.	45.00	400.00
4-yr., TT, field, 10 to 15 ins.	40.00	350.00

<i>Helix crenata</i> hetzi		
3-yr., TT, field, 6 to 12 ins.	35.00	300.00
4-yr., TT, field, 10 to 15 ins.	40.00	350.00
<i>Helix crenata</i> rotundifolia		
4-yr., TT, field, 8 to 12 ins.	35.00	300.00
5-yr., TT, field, 12 to 15 ins.	45.00	400.00
5-yr., TT, field, 18 to 24 ins.	75.00	650.00

<i>Helix crenata</i> stokesii, pat. 887		
4-yr., TT, field, 4 to 6 ins.	40.00	350.00
5-yr., TT, field, 6 to 12 ins.	50.00	450.00

The above a partial list of liners, complete		
catalog on request.		

HEASLEY'S NURSERIES		
247 Freeport Rd.		
Butler, Pa.		

2-YR. POTTED, 2 1/4-IN. POTS		
	Each, 100	1000
Juniper, Armstrong	\$0.27 1/2	\$0.25
Juniper, Pfitzer	.25	.22 1/2
Juniper, Blue Pfitzer	.27 1/2	.25
Arb. Berckmans' Biot	.22 1/2	.20
Taxus andersoni	.25	.22 1/2
Taxus Adams columnaris	.27 1/2	.25
Taxus cuspidata	.25	.22 1/2
Taxus hicksii	.25	.22 1/2
Taxus media No. 8	.27 1/2	.25
Taxus berryhilli intermedia	.27 1/2	.25

ROOTED CUTTINGS		
In lath house, ready now.		
Juniper, Armstrong	.13	.12
Juniper, Pfitzer	.12	.11
Juniper, Blue Pfitzer	.13	.12
Taxus andersoni	.11	.10
Taxus Adams columnaris	.12	.11
Taxus berryhilli intermedia	.12	.11
Taxus cuspidata	.11	.10
Taxus hicksii	.11	.10
Taxus media	.11	.10

OVERSTOCK SALE		
	100	1000 10,000 lots
4-yr., 8 to 14 ins.	\$20.00	\$10.00
3-yr., 6 to 12 ins.	2.50	12.00

Blue Spruce seedlings		
4-yr., 3 to 6 ins.	5.00	25.00
4-yr., 2 T, 4 to 8 ins.	8.00	45.00

Austrian Pine seedlings		
2-yr., 3 to 6 ins.	2.00	12.00

VERNON DALE NURSERY		
R. D. 4		
Meadville, Pa.		

ORNAMENTAL LINERS

<i>Taxus</i> , Adams		
	Per 100	Per 1000
1-yr., 2 1/4-in. pots	\$18.00	\$170.00
2-yr., 2 1/4-in. pots	24.00	230.00
3-yr., TT	35.00	325.00

<i>Taxus andersoni</i>		
1-yr., 2 1/4-in. pots	18.00	170.00
2-yr., 2 1/4-in. pots	24.00	230.00
3-yr., TT	35.00	325.00
4-yr., TT	42.50	400.00

<i>Taxus brownii</i>		
1-yr., 2 1/4-in. pots	18.00	170.00
2-yr., 2 1/4-in. pots	24.00	230.00
3-yr., TT	35.00	325.00
4-yr., TT	42.50	400.00

<i>Taxus cuspidata</i>		
1-yr., 2 1/4-in. pots	17.00	160.00
2-yr., 2 1/4-in. pots	22.00	210.00
3-yr., TT	35.00	325.00
4-yr., TT	42.00	400.00
5-yr., TT	62.50	600.00

<i>Taxus hicksii</i>		
1-yr., 2 1/4-in. pots	18.00	170.00
2-yr., 2 1/4-in. pots	23.00	220.00
3-yr., TT	35.00	325.00
4-yr., TT	42.00	400.00
5-yr., TTT	62.50	600.00

<i>Taxus hunnewelliana</i>		
2-yr., 2 1/4-in. pots	24.00	230.00
<i>Ilex convexa</i>		
3-yr., TT	37.50	350.00
4-yr., TT	45.00	425.00

<i>Ilex hetzi</i>		
3-yr., TT	37.50	350.00
4-yr., TT	45.00	425.00
<i>Ilex rotundifolia</i>		
3-yr., TT	35.00	325.00
4-yr., TT	42.50	400.00

Ilex hetzi		
3-yr., TT	37.50	350.00
4-yr., TT	45.00	425.00
Ilex rotundifolia		

EVERGREEN LINERS		Per 100	Per 1000
	GLOBE ARBORVITAE,		
1170.00	woodward, dark green, 1-yr.		
230.00	transplants, 4 to 6 ins....	\$30.00	\$250.00
325.00	Hovey's, green, 1-yr. trans-		
170.00	plants, 4 to 8 ins.	25.00	200.00
230.00	2-yr. trans., 6 to 8 ins....	40.00	300.00
400.00	PYRAMIDAL ARBORVITAE,		
	compacta, green, 1-yr.		
170.00	transplants, 5 to 7 ins....	35.00	300.00
230.00	JUNIPER, Blue Pfitzer,		
325.00	(chinesis hetzi), 1-yr.		
400.00	transplants, 5 to 7 ins....	25.00	200.00
160.00	JUNIPER, Irish, 1-yr. trans-		
210.00	plants, 4 to 6 ins.	30.00	250.00
325.00	JUNIPER, Andorra, 1-yr.		
400.00	transplants, 4 to 6 ins....	30.00	250.00
600.00	JAP. YEW, grown from seed,		
	Taxus cuspidata capitata		
170.00	upright, pyramidal, 4-yr.		
220.00	transp. (2-2), 6 to 12 ins.	30.00	200.00
325.00	JAP. YEW, transplanted rooted		
400.00	cuttings, Taxus cuspidata,		
600.00	spreading,		
	1-yr. transp., 5 to 6 ins....	25.00	175.00
230.00	2-yr. transp., 6 to 8 ins....	35.00	250.00
350.00	Taxus hicksi, upright,		
425.00	1-yr. transp., 5 to 7 ins....	25.00	175.00
	2-yr. transp., 8 to 10 ins....	40.00	300.00
350.00	Taxus browni, upright,		
425.00	1-yr. transp., 4 to 6 ins....	25.00	175.00
	2-yr. transp., 6 to 8 ins....	40.00	300.00
325.00	Taxus hunnewelliana, semi-		
400.00	upright,		
	1-yr. transp., 4 to 6 ins....	25.00	.....
	Taxus intermedia, spreading,		
	1-yr. transp., 4 to 6 ins....	25.00	175.00
	2-yr. transp., 6 to 8 ins....	35.00	250.00
	JAPANESE HOLLY (Ilex),		
	rotundifolia, transplants,		
	6 to 10 ins.	35.00	300.00
	convexa, transplants,		
	6 to 10 ins.	35.00	300.00
	crenata hetzi, transplants,		
	6 to 10 ins.	35.00	300.00
	AMERICAN HOLLY, FEMALE,		
	10 per cent male, 1-yr.		
	transplants, 8 to 12 ins....	50.00	400.00
	DELIA BRADLEY,		
	1-yr. transp., 8 to 12 ins....	50.00	400.00
	MUSSER FORESTS, INC.,		
	Box 16NC	Indiana, Pa.	

20.00	SPRING 1961		
25.00	SHIPPING CHARGES PREPAID		
	Rooted cuttings.		
10.00		Per 100	Per 1000
15.00			
35.00	Arborvitae, elegantissima,		
	6 to 8 ins.	\$10.00	\$ 90.00
	Arborvitae, pyramidal nigra,		
7.50	6 to 8 ins.	10.00	90.00
15.00	Arborvitae, wareana,		
15.00	6 to 8 ins.	10.00	90.00
30.00	Arborvitae, boothii globe,		
	4 to 6 ins.	9.00	80.00
12.50	Arborvitae, hoveyi globe,		
25.00	4 to 6 ins.	9.00	80.00
	Arborvitae, woodwardi globe,		
10.00	4 to 6 ins.	9.00	80.00
20.00	Boxwood, hardy var.,		
these	6 to 8 ins.	8.00	70.00
	Chamaecyparis, Lawson gn.,		
per	5 to 7 ins.	10.00	90.00
va-	Ilex crenata hetzi, 6 to 8 ins.	8.00	70.00
on	Juniper, Andorra, 6 to 8 ins.	9.00	80.00
	Juniper, Hetz, 6 to 8 ins.	9.00	80.00
	Juniper, Pfitzer, 6 to 8 ins.	10.00	90.00
Pa.	Juniper, Pfitzer Golden,		
	6 to 8 ins.	10.00	90.00
	Juniper, Von Ehron, 5 to 7 ins.	10.00	90.00
	Taxus brownii, 6 to 7 ins.	10.00	90.00
	Taxus cuspidata, 6 to 7 ins.	9.00	80.00
1000	Taxus hicksii, 6 to 8 ins.	9.00	80.00
	1-YR. TRANSPLANTS		
	Arborvitae, elegantissima,		
10.00	6 to 8 ins.	17.00	150.00
25.00	Arborvitae, boothii globe,		
28.50	6 to 8 ins.	16.00	140.00
	Arborvitae, woodwardi globe,		
	6 to 8 ins.	16.00	140.00
	Ilex hetzi, 6 to 8 ins.	14.00	120.00
	Taxus cuspidata, 6 to 8 ins.	16.00	140.00
	Taxus hicksii, 6 to 8 ins.	16.00	140.00

1-YR. HEAVY LINERS, OPEN BEDDED		Each	
Taxus cuspidata		\$0.20	
Taxus densiformis		.20	
Taxus hatfieldi		.20	
Taxus moonii		.20	
1-YR. LINERS, OPEN BEDDED			
Taxus cuspidata		.15	
Taxus densiformis		.15	
Taxus hatfieldi		.15	
Taxus cuspidata capitata, tip cuttings..		.15	
Rooted cuttings, out of sand.			
Ready June 1, 1961.			
Taxus cuspidata		.08	
Taxus hatfieldi		.08	
Taxus moonii		.08	
Taxus cuspidata		.08	
Minimum order 250.			
LAURIENTE NURSERIES, INC.			
464 Main St.	Agawam, Mass.		

SPRING 1961		
ROOTED CUTTINGS		
	100	1000
Arborvitae, pyramidal, 6 to 10 ins.	\$0.10	\$0.09
Arborvitae woodwardi, 6 to 8 ins.	.10	.09
Juniper, Andorra, 6 to 8 ins.	.11	.10
Juniper, Heitz, 6 to 8 ins.	.10	.09
Juniper, Pfitzer, 6 to 8 ins.	.10	.09
Taxus hicksi, 6 to 10 ins.	.09	.08
Taxus cuspidata, 6 to 10 ins.	.09	.08
Taxus browni	.10	.09
Taxus capitata (leaders), 6 to 8 ins.	.14	.12
1-YR. TRANSPLANTS		
Taxus densiformis	.18	.15
Taxus capitata	.18	.15
Taxus cuspidata	.15	.12
Taxus hicksi	.15	.12
Taxus browni	.18	.15
Juniper, Pfitzer (potted)	.20	.18
2-YR. TRANSPLANTS		
Taxus cuspidata	.20	.17
Taxus hicksi	.20	.17
Taxus browni	.23	.20
Taxus hatfieldi	.23	.20
3-YR. TRANSPLANTS		
Taxus cuspidata	.30	.27
Taxus hicksi	.30	.27
Taxus browni	.33	.30
Colorado Spruce (seedlings)	.12	.08
4-YR. TRANSPLANTS		
Taxus cuspidata	.40	.35
Taxus hatfieldi	.40	.35
Taxus browni	.40	.35
50 of a variety at 100 rate.		
300 of a variety at 1000 rate.		
JUNIPER GRAFTS		
	Per 100	Per 1000
	rate	rate
Canaerti, burkii	\$.55	\$0.50
Hillspire	.55	.50
SPRUCE GRAFTS		
Koster, Moerheim, Swartz, \$1.25 each.		
5 per cent discount, cash with order.		
DRAKE'S NURSERIES		
G-4342 Branch Rd.	Flint 6, Mich.	

QUALITY EVERGREENS		Per 100 Per 1000	
Douglas Fir, Colorado Blue strain			
2-yr. seedlings, 3 to 7 ins.		\$4.00	\$25.00
3-yr. seedlings, 8 to 14 ins.		7.00	45.00
Colorado Blue Spruce			
2-yr. seedlings, 4 to 6 ins.		4.00	25.00
3-yr. seedlings, 5 to 10 ins.		6.00	40.00
4-yr. transplants, 5 to 10 ins.		11.00	75.00
Norway Spruce			
2-yr. seedlings, 4 to 8 ins.		4.00	25.00
3-yr. seedlings, 8 to 14 ins.		5.00	35.00
3-yr. seedlings, 10 to 13 ins.		7.00	45.00
4-yr. transplants, 8 to 14 ins.		9.00	60.00
Canadian Hemlock			
6-yr., TT, field, 10 to 15 ins.		50.00	...
Taxus cuspidata			
1-yr. potted		16.00	...
Rooted cuttings, heavy			
Arborvitae, cuspidata, globe		12.00	90.00
European White Birch			
3 to 4 ft., heavy. Each		1.50	...
American Arborvitae			
7-yr., TT, field, potting grade,		60.00	...
Scotch Pine, Austrian Hill			
24 to 30 ins.			
Denmark, domestic strains			
2-yr. seedlings, 4 to 6 ins.		3.00	18.00
3-yr. seedlings, 10 to 16 ins.		4.00	28.00
Scotch Pine, special			
Blue-Green strain			
3-yr. seedlings, 8 to 12 ins.		5.00	32.50
Austrian Pine, Lower Alpine strain			
3-yr. seedlings, 8 to 12 ins.		4.00	28.00
4-yr. seedlings, 12 to 18 ins.		5.00	32.50
White Pine			
3-yr. seedlings, 6 to 10 ins.		4.00	28.00
4-yr. transplants, 6 to 12 ins.		8.00	60.00
American Red Pine			
3-yr. seedlings, 6 to 10 ins.		4.00	28.00
5-yr. transplants, 10 to 20 ins.		15.00	...
Myrtle, ground cover			
Clumps, 10 to 20 leaders.		8.00	50.00

Write for complete list.

FLICKINGERS' NURSERY

Box 33

Sagamore, Pa.

EVERGREENS, LINERS			
		Per 100	Per 1000
Eastern Red Cedar,			
6 to 12-in. seedlings	\$10.00	\$35.00	
Ponderosa Pine,			
2 to 4-in. seedlings		18.00	
Jack Pine, 4 to 8-in. seedl.	3.50	12.50	
10 to 18-in. seedlings	8.00	22.50	
Norway Spruce,			
6 to 10-in. seedlings	5.00	25.00	
6 to 12-in. transplants	12.50	50.00	
8 to 12-in. seedlings	12.50	40.00	
Colorado Blue Spruce,			
2 to 4-in. seedlings	5.00	20.00	
3 to 6-in. seedlings	6.00	25.00	
Douglas Fir,			
2 to 4-in. seedlings	5.00	20.00	
3 to 6-in. seedlings	6.00	25.00	
White Pine, 2 to 4-in. seedl.	3.75	15.00	
3 to 6-in. seedlings	4.50	20.00	
3 to 6-in. transplants	6.50	25.00	
Austrian Pine, 6 to 10-in. seedl.	6.00	20.00	
4 to 8-in. seedlings	8.00	18.00	
Scotch Pines, several varieties available			
8 to 14-in. seedlings	8.00	25.00	
6 to 10-in. seedlings	6.00	20.00	
3 to 6-in. seedlings	4.00	15.00	
All 100 rate quotations shipped postpaid.			
50 at 100 rate; 500 at 1000 rate.			
TERMS: Cash with order, please, or 25			
per cent deposit, balance on shipment.			
VANS PINES, INC.			
West Olive, Mich.			

EVERGREEN SEEDLINGS		100	1000
Scotch Pine (Spanish or French)			
2-yr. (2-0), 4 to 7 ins.....	\$	4.00	\$ 20.00
3-yr. (3-0), 6 to 12 ins.....		5.00	25.00
Austrian Pine			
3-yr., 6 to 12 ins.....		5.00	25.00
Colorado Blue Spruce			
3-yr. (3-0), 5 to 9 ins.....		5.00	30.00
4-yr. (2-2), 8 to 10 ins.....		10.00	75.00
Norway Spruce			
2-yr. (2-0), 3 to 6 ins.....		4.00	20.00
3-yr. (3-0), 8 to 12 ins.....		5.00	30.00
White Spruce			
3-yr. (3-0), 8 to 12 ins.....		5.00	30.00
Black Hills Spruce			
3-yr. (3-0), 5 to 9 ins.....		5.00	30.00
Engelmann Spruce			
3-yr. (3-0), 5 to 9 ins.....		5.00	30.00
Canadian Hemlock			
(nursery-grown seedlings)			
2-yr. (2-0), 3 to 5 ins.....		5.00	30.00
4-yr. (2-2), 6 to 12 ins.....		10.00	80.00
Japanese Holly			
1-yr. (1-0), 6 ins.....		17.00	150.00
3-yr. (1-2), 10 ins.....		50.00	350.00
Japanese Yew (cuspidata)			
1-yr. (1-0), 8 ins.....		17.00	150.00
4-yr. (2-2), 12 ins.....		45.00	350.00
Hicks Yew			
1-yr. (1-0), 8 ins.....		17.00	150.00
4-yr. (2-2), 12 ins.....		45.00	350.00
BRETKE'S EVERGREEN NURSERY			
R. D. 2		Indiana, Pa.	
Phone HO 3-0363			

EVERGREEN SEEDLINGS		100 1000	
Douglas Fir, 4 to 6 ins.		\$ 5.00	\$25.00
6 to 10 ins.		7.00	30.00
10 to 16 ins.		9.00	...
Concolor Fir, 4 to 8 ins.		6.50	...
6 to 12 ins.		9.00	...
American Arborvitae, 3 to 6 ins.		5.00	22.50
5 to 10 ins.		7.00	30.00
6 to 12 ins.		8.00	40.00
10 to 15 ins.		8.00	40.00
Colorado Blue Spruce, 3 to 5 ins.		5.00	25.00
6 to 12 ins.		8.00	40.00
10 to 15 ins.		10.00	50.00
Black Hills Spruce, 3 to 6 ins.		5.00	25.00
6 to 12 ins.		8.00	40.00
10 to 16 ins.		10.00	50.00
Scotch Pine, non-yellowing,			
5 to 10 ins.		7.00	35.00
3 to 6 ins.		5.00	25.00
Dwarf Mugho Pine, 3 to 6 ins.		7.00	...
Dwarf Swiss Stone Pine, 12-yr. 12 to 20 ins.		\$5.00 each, express collect.	Remittance with order. Plants at 100 rate sent prepaid up to zone 5, 500 plants at 1000 rate, express collect. Packing free.
Burlap bags, approximately 50x70 ins.			When opened, 15c each. F.O.B. 25 to a bundle.
NEUNER'S EVERGREEN NURSERY			
368 Elcher Rd. Pittsburgh 2, Pa.			
3-YR. BEDDED, POTTED		Each, 100 1000	
Andorra Juniper, 8 to 10 ins., T.		\$0.50	\$0.40
10 to 15 ins., T.		.60	.50
Pfitzer Juniper, 8 to 10 ins., T.		.50	.40
10 to 15 ins., T.		.60	.50
Pfitzer comp. Juniper,			
8 to 10 ins., T.		.50	.40
10 to 15 ins., T.		.60	.50
Taxus hicksi, 6 to 10 ins., T.		.45	.40
Thuja globosa, 12 to 15 ins., T.		.50	.45
Thuja pyramidalis,			
18 to 24 ins., T.		.60	.50

EVERGREENS, Liners—Continued

SEEDLINGS AND TRANSPLANTS		
	Per 100	Per 1000
Scotch Pine, 8 to 16 ins.	4.50	\$22.50
Gray Douglas Fir, 6 to 10 ins.	5.00	27.50
Blue Douglas Fir, 6 to 10 ins.	5.00	27.50
Norway Spruce, 5 to 10 ins.	5.00	27.50
Red Pine, 6 to 9 ins.	4.75	25.00
Colo. Blue Spruce, 4 to 6 ins.	4.00	20.00
Eastern Red Cedar, 8 to 16 ins.	7.00	35.00
Eastern Red Cedar, 6 to 10 ins.	6.00	30.00
Amer. Arborvitae, 5 to 10 ins.	4.75	25.00
Austrian Pine, 8 to 16 ins.	4.50	22.50
TRANSPLANTS		
Norway Spruce (2-2),		
6 to 12 ins.	10.00	50.00
Colorado Blue Spruce (2-2),		
5 to 9 ins.	10.00	50.00
Japanese Black Pine (2-2),		
8 to 16 ins.	12.00	60.00
Packing free cash with order		
or 25 per cent down, balance C.O.D.		
DUNEGAN NURSERY		
Clymer, Pa.		

FIELD-GROWN TRANSPLANTED STOCK		
	Each	
Chamaecyparis lawsoniana allum,		
12 to 15 ins., 3-yr., T.	\$0.45	
Globe Arborvitae (Woodward),		
4 to 6 ins., 1-yr., T.	.20	
Juniper, Andorra, 4 to 8 ins., 1-yr., T.	.15	
Taxus capitata, 4 to 6 ins., 3-yr., T.	.15	
Taxus cuspidata, 4 to 6 ins., 2-yr., T.	.15	
Taxus media hicksi, 4 to 6 ins., 2-yr., T.	.15	
Taxus media browni,		
4 to 6 ins., 2-yr., T.	.15	
Blue Spruce (Colorado),		
8 to 10 ins., 5-yr., T.	.35	
White Spruce, 10 to 12 ins., 5-yr., T.	.20	
Terms: Cash, or C.O.D. Packing at cost.		
Minimum order 10 plants of a variety. F.O.B. Harmony, Pa.		
Shipments made by Railway Express or parcel post.		

VULAKOVIC'S NURSERY
Harmony, Pa.
R. D. 1

JUNIPER GRAFTS
Varieties: Canaertii, burki, glauca, Dundee, keteleeri, cupressifolia, ch. columnaris, blue; Pfitzer and Hetz. All on virginiana understock.
Price: 45c each, no matter how many are bought.
Terms: One-fourth cash with order and balance before shipping date, plus boxing and packing at cost. All cash with order earns boxing and packing free.
WHEN BETTER GRAFTS ARE MADE, CRUME WILL MAKE THEM.
T. C. CRUME NURSERY
U. S. 42 LANDSCAPING CO.
Florence, Ky.
Phone Atlantic 3-2361

ROOTED CUTTINGS
Rooted in open beds in summer of 1960.
Ilex hetzi 5c
Ilex microphylla 5c
Ilex buxifolia 5c
Ligustrum lucidum 4c

SEEDLINGS AND TRANSPLANTS
Hetz Juniper, 2 1/2-in. pots. 12 1/2c
Andorra Juniper, 2 1/2-in. pots. 12 1/2c
Savin Juniper, 1-yr., field-grown. 10c
Von Ehrh Juniper, 1-yr., field-grown. 10c
Juniperus fastigiata, 1-yr., field-grown. 10c
Write for complete list of liners and finished Evergreens.

STRAIN & SONS NURSERY
Highway 31 South Athens, Ala.

ROOTED CUTTINGS AND TRANSPLANTS
Strong, true to type, rooted cuttings of the following:
Taxus varieties: Browni, kelseyi, hicksi, femina, wardi, Hill's dwarf pyramidal, dwarf erecta and cuspidata.
Hill's pyramidal and bothi Arborvitae.
These are large cuttings, hormone treated and radiant heat grown, producing an abundance of strong roots.
\$10.00 per 100, \$90.00 per 1000.
Write for prices of 2 and 3-yr. transplants of the above varieties.
Free packing for cash with order.

ARTLEY'S NURSERY
339 Cherry St. Montoursville, Pa.

TSUGA CANADENSIS (Canada Hemlock)
Collected seedlings.
Per 100 Per 1000
6 to 9 ins. \$5.00 \$30.00
9 to 12 ins. 8.00 70.00
Nursery-grown transplants.

8 to 12 ins., 2-3 \$0.25 \$0.24
12 to 18 ins., 2-350 .40
18 to 24 ins., 2-370 .60
Send for complete trade list of hardy native Ferns, wildflowers, Evergreens, trees and shrubs.

ISSAC LANGLEY WILLIAMS
Box AN Exeter, N. H.

CHRISTMAS TREE GROWERS!
We offer you excellent stock of Scotch Pine, non-yellowing.
Low priced, generous count.
French Blue-green, 4 to 8 ins.
Austrian Green, 5 to 10 ins.
Seedlings only.
\$12.00 per 1000.
ST. REGIS TREE NURSERY
St. Regis Falls, N. Y.

2-YR. TRANSPLANTS, HEAVY ROOTED
Hicks Yew, 6 to 10 ins. \$0.18 each
Cuspidata Yew, 6 to 10 ins.18 each
Hetz Juniper, 8 to 12 ins.18 each
Pyramidal Arborvitae, 8 to 12 ins.18 each
Globe Arborvitae, 6 to 10 ins.18 each
Gold Plume Cypress, 8 to 12 ins.18 each
Green Plume Cypress, 8 to 12 ins.18 each
Hardy Evergreen Azaleas,
named varieties25 each
Minimum order 25 of variety.
Limited quantities. Orders filled as received.
Japanese beetle certified.
JOHN R. GIRARO FLORAL & NURSERIES
1743 West Prospect Ashtabula, O.

MIAMI NURSERY PRICE LIST
2-YR. POTTED STOCK
The finest: Taxus, Arborvitae, Junipers and broad-leaved liners and rooted cuttings.
2-yr., pot-grown stock, 7 to 9 ins., sheared, 20c to 25c each, per 1000 rate.
1-yr.-old, heavy rooted cuttings, 8c to 10c, per 1000 rate.
NOTE: Write for price list with full line of potted stock and rooted cuttings. "GET ACQUAINTED" OFFER on 250 2-yr. pot plants or 250 rooted cuttings. Special prices on large quantities. Samples free on request.
Call collect TIPP CITY, NO 7-6398.
MIAMI NURSERY CO., TIPP CITY, O.

PINE, SPRUCE, SEEDLINGS AND LINERS
100 1000
Scotch Pine, 3-yr., 9 to 14 ins. \$ 6.00 \$30.00
(French and Spanish strains)
Colo. Blue Spruce, 4-yr.,
6 to 12 ins. 10.00 50.00
Norway Spruce, 3-yr., 6 to 12 ins. 6.00 35.00
Juniperus glauca hetzi, 2-yr.,
6 to 12 ins. 5.00 25.00
Spreading Jap. Yew, 4-yr.,
6 to 12 ins. 40.00
Write for complete list.
PAINT CREEK NURSERIES
R. D. 1 Shipperville, Pa.

LINING-OUT EVERGREENS
SEE OUR DISPLAY AD IN THIS ISSUE ON PAGES 36-37.
CARTWRIGHT NURSERY CO.
Collierville, Tenn.

Scotch Pine seedlings, French Green, German, Scotch Highland. 100 1000
2-yr., 2 to 4 ins. \$3.00 \$ 6.00
2-yr., 3 to 7 ins. 4.00 8.00
3-yr., 6 to 10 ins. 5.00 12.00
Colorado Blue Spruce, 3 to 7 ins. 6.00 20.00
White Spruce, 3 to 7 ins. 6.00 20.00
Norway Spruce, 3 to 7 ins. 6.00 20.00
Cash, or 25 per cent down and balance before shipment. F.O.B.
West Olive Nursery & Evergreens, R. 1, West Olive, Mich.

SEEDLINGS AND TRANSPLANTS
100 1000
Scotch Pine (French or Spanish) \$3.50 \$20.00
Colorado Blue Spruce
3-3 transplants, 8 to 14 ins. 8.00 60.00
4-yr. seedlings, 8 to 12 ins. 5.00 35.00
3-yr. seedlings, 4 to 8 ins. 3.50 25.00
Mariana Black Spruce
4-yr. seedlings, 10 to 16 ins. 4.00 30.00
Balsam Fir
4-yr. seedlings, 6 to 10 ins. 4.00 30.00
BERKEY'S NURSERY, Spartansburg, Pa.

TAXUS, 2-YR. BEDDED
Varieties, densiformis, Hicks, Brown, Ward, Seban intermedia, cusp. nana femina, Ander-son, \$25.00 per 100.

JUNIPERS, 2 1/2-IN. POTS
Pfitzeriana nana, pfitzeriana compacta and Hetz, \$25.00 per 100.
3000 VIBURNUM LANTANA
2-yr., 10 to 15 ins., \$12.00 per 100, \$90.00 per 1000.
JOHN BOS NURSERY, CLYDE, O.

BERCKMANS' GOLDEN ARBORVITAE
OUR SPECIALTY
Sturdy liners, dirt-grown in full sun.

Each, 100 1000
4 to 6 ins. \$0.08 \$0.07 1/2
6 to 8 ins.11 .10
8 to 10 ins., transplanted.17 .15
10 to 12 ins., transplanted.22 .20
THE BUSH RANCH
140 Woodland Dr. Thomasville, Ga.
James W. Lawson, Mgr. Phone CA 6-4245

WELL-ROOTED CUTTINGS
Grown under lights.
Taxus, Junipers and Arborvitae.
Price range, 7c to 10c each.
Also 1, 2, 3 and 4-yr. transplants.
Write for price list.

NEIDEL'S NURSERY
216 Park Ave. Oil City, Pa.

SEEDLINGS AND TRANSPLANTS
See our display ad on page 98 of this issue.
W. S. YOE NURSERIES
Lake St. Madison, O.

BUXUS SEMPERVIRENS, FIELD-GROWN
5 yrs. old, 8 to 12 ins., 50c each, \$45.00 per 100, \$400.00 per 1000.

BUXUS SUFFRUTICOSA LINERS
1-yr. \$7.00 per 100
2-yr. 12.00 per 100
3-yr. 15.00 per 100
NANDINA SEEDLINGS
6 to 8 ins. \$5.00 per 100
12 to 15 ins. 10.00 per 100
2 to 3 ft. 15.00 per 100
All plants postage or express collect.
PINKSTON NURSERIES, PARROTT, GA.

ROOTED CUTTINGS
Well-rooted, grown in outdoor beds.
4,000 Ligustrum lucidum compactum, 4 to 6 ins., \$5.00 per 100.
10,000 Ilex c. microphylla, 4 to 6 ins., \$5.00 per 100.
12,000 Ilex c. hellei, 4 to 5 ins., 100, \$6.00.
Minimum order 100. Packing free.
BUCHANAN'S NURSERY
Western Blvd. Raleigh, N. C.

EVERGREENS, LINERS
2-yr. transplants Per 100 Per 1000
Taxus media andersoni \$25.00 \$200.00
Taxus media browni 25.00 200.00
Taxus media hicksi 25.00 200.00
Taxus media Seban 25.00 200.00
Taxus media wardi 25.00 200.00
Taxus media donewelli 25.00 200.00
HERMAN LOSELY & SON
Haskins Rd. Chagrin Falls, O.

Our graded top quality tree seedlings are making old customers out of new ones. Best strains, color and vigor.
3-yr. French Scotch Pine, 10 to 16 ins., \$25.00
3-yr. Spanish Scotch Pine, 10 to 16 ins., 25.00
4-yr. Austrian Pine, 12 to 18 ins., 25.00
4-yr. Colo. Blue Spruce, 6 to 12 ins., 30.00
4-yr. White Spruce, 10 to 16 ins., 30.00
Free literature, also specials.
Myers Nursery, R. 1, Creekside, Pa.

EVERGREEN LINERS
Pyracanthas, Ilex, crenata hellei, rotundifolia, burfordi; Cherry Laurel, Aucuba, Pieris and other material in rooted cuttings, 1-yr. and 2-yr. liners.
Write for price list.

K&K PROPAGATORS
R. D. 2, Box 286 Englishtown, N. J.

HEMLOCKS, LINING-OUT STOCK
Strong liners that will please you.
Each, 100 1000
Hemlock, TT, 8 to 10 ins. 25c 22 1/2c
Hemlock, TT, 10 to 12 ins. 35c 32 1/2c
The 100 rate applies beyond the beetle zone.

TWIN CEDAR NURSERY
Williamsburg, Mass.

JUNIPERUS SCOPULORUM
2-yr., 12 to 18 ins., \$10.00 per 100, \$90.00 per 1000.
Colo. Ponderosa Pine, 3-yr., 4 to 8 ins., and Austrian Pine, 3-yr., 6 to 10 ins., \$4.00 per 100, \$30.00 per 1000.
Freight paid if payment with order.
WESTERN EVERGREENS
14201 W. 44th Ave. Golden, Colo.

SPRUCE, SEEDLINGS AND LINERS
White Spruce, 3-yr., 4 to 10 ins., \$25.00 per 1000; 4-yr. (2-2), 6 to 12 ins., \$40.00.
Colorado Blue Spruce, 4-yr. (2-2), 4 to 8 ins., \$40.00. No packing charge. Cash.
DECKER EVERGREEN NURSERY
R. D. 1 Cadillac, Mich.

EVERGREENS AND AZALEAS
Liners and rooted cuttings.
Write for our trade list.
F. D. HALL & SON NURSERY
336 Saxonburg Rd. Butler, Pa.

DOUGLAS FIR 100 1000
60,000 (3-0) \$10.00 \$40.00
THE FLOWER BASKET
Saugatuck, Mich.

EVERGREENS, B&B

ARE YOU LOOKING FOR LARGE SPECIMEN MATERIAL?
First-quality, heavy and sheared.
Taxus cuspidata, 3 1/2 to 5 ft.
Taxus cuspidata nana, 3 1/2 to 5 ft.
Taxus hicksi, 3 1/2 to 6 ft.
Taxus capitata, 5 to 9 ft.
Ilex hetzi, 30, 36 and 42 ins to 48 ins.
Ilex opaca, 3, 4 and 5 ft.
Ilex rotundifolia, 30, 36 and 42 ins. to 48 ins.
Thuja elegantissima, 5, 6 and 7 ft. to 8 ft.
Pinus nigra (Austrian), 4, 5, 6 and 7 ft. to 8 ft.
Magnolia soulangeana, 6 to 9 ft.
Magnolia stellata, 6, 7 and 8 ft. to 9 ft.
Euonymus alatus compactus, 5x5, 6x6 ft.
Euonymus vegetus Sarcoxia, 30, 36 and 42 ins.
Cotoneaster adpressa, 24, 30 and 36 ins.
Kwanzan and Weeping Cherry, 3 to 4-in. cal.
We have large plants in more varieties.
See or call:
FAIRVIEW FLORAL NURSERY
27819 Center Ridge Rd., U. S. 20
Westlake, Ohio.

EVERGREENS, B&B

500 Andorra Juniper, 18 to 24 ins.	\$1.50
1000 Andorra Juniper, 24 to 30 ins.	2.00
500 Andorra Juniper, 30 to 36 ins.	2.50
500 Andorra Juniper, 36 to 48 ins.	3.00
500 Pfitzer Juniper, 24 to 30 ins.	2.50
500 Pfitzer Juniper, 36 to 48 ins.	3.50
500 Norway Spruce, 2 to 3 ft.	2.50
500 Norway Spruce, 3 to 4 ft.	3.50
500 White Pine, 2 to 3 ft.	2.50
500 White Pine, 3 to 4 ft.	3.50
100 Mugho Pine, 18 to 24 ins.	3.50
400 Mugho Pine, 15 to 18 ins.	2.50
250 Mugho Pine, 12 to 15 ins.	2.00
300 Ilex crenata, spreading, 2 to 3 ft.	3.00
2000 Ilex rotundifolia, 18 to 24 ins.	2.50
4000 Ilex rotundifolia, 15 to 18 ins.	2.00
1000 Ilex rotundifolia, 12 to 15 ins.	1.50
500 Ilex convexa, 15 to 18 ins.	2.50
350 Canada Hemlock, 4 to 5 ft.	5.00
300 White Dogwood, 6 to 8 ft.	5.00
350 White Dogwood, 5 to 6 ft.	3.50
400 White Dogwood, 3 to 4 ft.	1.50

All stock is B&B, sheared yearly, certified for shipment any place.

KANEFF'S NURSERIES

Glendale Rd. Marietta, O.

LAMBRECHT'S EVERGREENS, B&B

HARDY, MICHIGAN-GROWN

Over 300,000, all types and sizes.

JUNIPER spreaders, 15 to 18 ins.	\$2.00
3 to 4 ft., \$4.50; 18 to 24 ins.	
24 to 30 ins.	2.50

ARBORVITAE, all types, 3 to 4 ft.	3.00
5 to 8 ft., \$1.00 ft.; 4 to 5 ft.	4.00

TAXUS, spreaders, Globe or Hicks,	
15 to 18 ins., \$4.00; 18 to	
24 ins.	\$4.00 to 5.00
24 to 30 ins., \$6.00; 3 to 4 ft.	8.00 to 10.00

Plus 20,000 beautiful Spruce and Pines, 2 to 7 ft., \$1.50 per ft. (Koster, \$2.50 ft.).

You name it—we get it, from seedlings to 8 ft. Heavy stock. Let'sicker.

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Biota aurea nana, 18 to 21 ins.	\$1.35
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Juniperus depressa, 15 to 18 ins.	1.00
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Juniperus hibernica, 24 to 30 ins.	1.35
Juniperus excelsa striata, 18 to 24 ins.	1.35
Retinospira alumi, 15 to 18 ins.	1.00
Thuja occ. globosa, 10 to 12 ins.	.80
Thuja occ. pyramidalis, 24 to 30 ins.	1.70
Flowering Almond, 18 to 24 ins.	1.00
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Flowering Hops Crab, 5 to 6 ft.	2.50
Silver Maple, 18 ft.	2.50

Write for complete wholesale list.

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R. D. 1 Phone YE 5-2356 Salem, N. J.

CONIFERS

Larix decidua	Each, 100	1000
4-yr., tr. (2-2), 2 to 3 ft.	\$0.35	\$0.30
1 1/2 to 2 ft.	.25	.20

Chamaecyparis lawsoniana		
4-yr., tr. (2-2), 10 to 15 ins.	.15	.13
Tsuga caroliniana		
2-yr., s (2-0), 3 to 6 ins.	.12	.10
Taxus capitata		
2-yr., s (2-0), 3 to 6 ins.	.12	.10
Pinus nigra		
4-yr., tr. (2-2), 6 to 12 ins.	.12	.10
Picea glauca		
4-yr., tr. (2-2), 5 to 10 ins.	.12	.10

WAVECREST NURSERIES

Fennville, Mich.

JUNIPERS, B&B

2000 Andorra, 15 to 18, 18 to 24, 24 to 30 ins.	
2000 Hetz, 18 to 24, 24 to 30, 30 to 36 ins.	
1000 Pfitzer, 15 to 18, 18 to 24 ins.	
Some 3 to 4 ft.	

ARBORVITAE

2000 Woodward globe, 15 to 18, 18 to 24 ins.	
2000 nigra, 18 to 24, 24 to 30, 30 to 36 ins.	
1000 Pyramidal, 2 to 3 ft.	

Other kinds in smaller lots. See our ad under Shrubs and Trees.

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2000 Greenspire Arborvitae, 24 to 30 ins.	.95
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Chinese Elm trees, 1 1/2 to 3 ins.	

Above items grown in heavy black soil. For immediate delivery. Photos of above available on request. Write for our 1961 catalog.

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MUST MOVE TO CLEAR LAND

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Blue Hetz Juniper, to 36 ins.

Pfitzer Juniper, to 30 ins.

Irish Juniper, to 5 ft.

Big Chinese Elm and Silver Maple.

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Decherd, Tenn.

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Canaerti, burki, hilli, keteleeri and chin. mascula, 3 to 3 1/2 ft., \$3.50; 4 to 4 1/2 ft., \$4.50; 5 to 5 1/2 ft., \$5.00; 6 to 6 1/2 ft., \$7.50; 7 to 7 1/2 ft., \$9.00; 8 to 8 1/2 ft., \$12.00. Taxus hicksi, 18 to 24 ins., \$3.50; 24 to 30 ins., \$4.25. Crataegus cordata, 6 to 8 ft., B&B, \$5.50. Phone TWInbrook 4-9828.

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SPECIAL SPRING SALE

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Good, heavy landscape stock. Sheared and well-branched. Medium sizes. The kind and quality we like to use on our own jobs.

Priced so you can make money. Send your want list to either nursery.

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All in 10 or 12-in. Keiding pots.

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Sheared, B&B, 4 to 5 ft., 2.50 3.00

Sheared, B&B, 5 to 6 ft., 3.50 4.00

No. 2 Pine cheaper.

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Attention, Chicago area landscapers!

Quality Pitzers, 2 ft. to 4 ft. Priced reasonably. Also Yews, Douglas Fir, etc.

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(J. Van Wyngarden)

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1700 Hetz Juniper, 15 to 18 ins. \$1.75

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These are compact. All real beauties.

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Ilex opaca, 3-in. potted plants.

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Herbert, hinodegiri, Palestrina, Othello, Hino-Crimson and ledifolia alba.

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Beatrix Farrand, 18 to 24 ins. \$55.00 \$500.00

Beatrix Farrand, 2 to 3 ft. 60.00 550.00

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FRUIT AND NUT TREES

A FINE LOT OF FRUIT TREES

The best we have ever grown.

Ideal for retail sales or the orchard planter.

PEACHES, 1-yr. Each, 100

5 to 6 ft., 11/16-in. \$0.75 \$0.65

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3 to 4 ft., 7/16-in. .55 .45

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10c less in quantities of 500 or more.

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7/16 ins. .70 .60

BARTLETT PEAR, standard 2-yr.

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APRICOTS AND NECTARINES

5 to 6 ft., 11/16-in. .85 .80

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5 to 6 ft., 11/16-in. 1.25

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Free packing when cash accompanies order.

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Per 10 Per 100

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Varieties: Lodi, Yellow Transparent, Red

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QUALITY GERANIUM CUTTINGS

Unrooted, \$4.50 per 100, \$40.00 per 1000; rooted, \$8.50 per 100, \$80.00 per 1000. Special varieties slightly higher. Catalog of over 150 leading varieties free.

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Hardy Myrtle (Vinca minor, Periwinkle), large individually made-up clumps of 20 to 25 leads; finest quality, \$50.00 per 1000. Lonicera Hall's halliana (Creeping Honeysuckle), 3-yr., branched, machine dug for better plants and standardized for landscaping the larger areas, \$47.50 per 1000; 5000 or more plants, \$45.00 per 1000. Pachysandra terminalis, excellent 1 to 2-yr. rooted cuttings, \$50.00 per 1000. English Ivy (Hedera helix), 1 to 2-yr. rooted cuttings, propagated outside under mist, \$50.00 per 1000. Euonymus coloratus, rooted cuttings, \$65.00 per 1000. Euonymus vegetus, \$65.00 per 1000. Euonymus patens, \$45.00 per 1000. Euonymus radicans, \$50.00 per 1000. Mixed Ferns, \$75.00 per 1000. Can furnish all of the above in 2½ or 3½-in. pots (ask about prices).

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For showy background plantings, these are unsurpassed. Heavy field-grown plants. White with red eye, pink or red, \$1.80 per 10, \$16.00 per 100. Mixed colors, \$1.65 per 10, \$14.00 per 100. Minimum order \$4.00. Send for our complete list of hardy perennials today.

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Over 500 varieties

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Hyperion, best yellow \$2.50 \$20.00

Hybrid mixture, red-yellow 2.00 15.00

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Becoming very popular as a summer blooming plant. 8 to 10-in. gorgeous blossoms set gardens aflame. All shades of red, pink, rose and white with red eye. Hardy from coast to coast. Can be reset bare-root any time of year, even may be dug when in full bloom, cut to short stubs and will quickly rebloom. Landscaper's delight. Fine can plant, and especially adapted to mail-order business. Come in two grades, all blooming stock, mixed colors.

Grade Lots, 10 100 1000

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Each, 10 100

Old Heavy Berry \$0.35 \$0.30

Westcroft35 .30

Farage35 .30

Ardan35 .30

Cumberland35 .30

Mamie Eisenhower35 .30

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Males35 .30

Combined total of Cumberland and Old Heavy Berry not to exceed 50 per cent of rooted cuttings ordered.

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Menantico65 .60

Maurice River65 .60

Clark65 .60

Ardan65 .60

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Conifer seedling list on request.

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From our own northern Ohio stock plants.

Male or female Per 100

Rooted cuttings \$17.50

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Rooted cuttings 20.00

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Thousands of splendid pruned plants.

15 to 18 ins. \$1.85 2½ to 3 ft. \$4.50

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24 to 30 ins. 3.35

100 or more, 10 per cent discount.

Send for spring list, Azaleas, Crabs, broad-leaved Evergreens, etc.

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ILEX

5000 ILEX MUST BE SOLD

Lots of convexa, crenata and rotundifolia.

Husky, healthy plants, 15 to 18 ins. B&B, only \$1.00.

DIG YOUR OWN, ONLY 75¢

All stock must be sold by June 1.

Phone ORiole 6-0630. Write for list.

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English, Silver variegated.

2½-in. pots, 8 ins. tall, 30¢; 10 ins. tall, 35¢; 12 ins. tall, 40¢; 4-in. pots, single stem, 60¢; 4-in., well-branched, 75¢; 4-in. pots, Osmanthus ilicifolius variegatus, well-br., 60¢.

Ready now. Cash with order, please.

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ANNOUNCEMENT

American (Ilex opaca) Holly liners.

Write for price list.

HOLLY HAVEN, INC., having dissolved as a corporation, wishes to announce that all plant material is now owned and offered for sale by

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Box 64 New Lisbon, N. J.

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Rotundifolia, crenata, burfordi, helleri, microphylla, betzi, cornuta repandens and the new rotunda.

80¢ each, in lots of 500.

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ILEX CRENATA VARIETIES

500 rotundifolia, 5000 hetzi, 300 compacta, 300 microphylla, in 2 1/2 in. peat pots. 12 1/2 each, \$700.00 for the lot.

F.O.B. Onley, Va.

Ready May 1, Jap. beetle zone only.

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Named varieties of northern origin, in sizes from 2 ft. to 6 ft., priced according to height and fullness. A few larger sizes. Also crenata rotundifolia, Hetz and convexa.

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HONEYSUCKLES

Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants. 3, 4 to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample, 100, \$4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone OR 2-4612.

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DISCARD THE 1960 MODEL FOR A SMOOTHER RIDE WITH ANNABELLE, the showier white Hydrangea arborescens for the second half of the century. Registered 1960, after thorough Illinois tests, Annabelle will sell. The bushes grow straighter, bear larger heads with more flowers in each, and the heads are really symmetrical. Hardy in zone 4. Dormant hard-wood cuttings, postpaid on cash orders, \$15.00 for 25 ft., \$50.00 for 100 ft.

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HYDRANGEA NIKKO BLUE 10 100
3-yr., 3 canes or more \$5.00 \$45.00
2-yr., 2 canes and up 3.50 30.00

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Waynesboro, Va.

IRISES

IRISES

Heavy 2-yr. certified plants.

INTERMEDIATE IRISES

Bloom both spring and fall.

Autumn Queen, white; Eleanor Roosevelt, purple; Lt. Chavignac, violet-purple; Ultra, blue.

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Blue Rhythm, China Maid, Great Lakes, Gudrun, Ola Kala, Prairie Sunset, Tiffany, Wabash.

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Atrovioacea, red-purple; Canary Yellow, Iceberg, white; Sambo, violet-blue; Sapphire, blue.

Above three types of Irises,

\$2.00 per 10, \$15.00 per 100.

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Mentor, O.

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BALTIC IVY

Thorndale, sub-zero strain, landscaping size, 2-1/2 in. pots, \$14.00 per 100, \$125.00 per 1000; rooted cuttings, \$7.50 per 100. New Wilson strain, pots, 15c; rooted cuttings, 3 1/2 c.

STRAITFORD GARDENS

Russell Breece, R. 9 Delaware, O.

BALTIC IVY

Very hardy.

Good ground or wall cover.

Rooted cuttings,

\$7.00 per 100, \$65.00 per 1000.

NEIDEL'S NURSERY

216 Park Ave. Oil City, Pa.

Hardy English Ivy, 1 to 2-yr. rooted cuttings with glossy green foliage. Excellent for landscape planting, \$35.00 per 1000. Cash or C.O.D. Phone WO 3-3243. Norman L. Roberts, Newtown, R. 1, Bucks Co., Pa.

Turn your Surplus Stock

into cash

with a Classified Ad in

the American Nurseryman.

LAWN GRASS AND SEED

LAWN SEED

Wholesale prices. F.O.B. New York.

300 lbs. will be shipped freight paid.

50 lbs. 100 lbs.

Sunny Best Mixture, contains

30 per cent Merion Blue

Grass \$37.50 \$69.00

Shady Best Mixture, contains

Wood Meadow Grass 24.50 43.00

Landscape Gardeners' Mixture,

with or without clover 21.00 36.00

Also formulas for cemeteries, athletic

fields, golf courses, etc. Send for complete

wholesale list which includes current quo-

tations for all individual grasses.

HERBST BROTHERS, SEESMEN, INC.

678 Broadway New York 12, N. Y.

"PURE KY." BLUE GRASS LAWN SEED

Grown right here on our farm. You know you are getting thoroughbred seed.

Join our satisfied customers.

10 lbs., \$5.50; 25 lbs., \$12.00; 50 lbs.,

\$20.00; 100 lbs., \$38.00. All F.O.B. here.

WALNUT LAWN FARM

Route 2 Lexington, Ky.

WHOLESALE LAWN SEED

Write for "FORESTRY'S" new spring list featuring 13 different lawn seed formulas, plus 30 straight grasses.

FORESTRY ASSOCIATES

P. O. Box 1069 Allentown, Pa.

Phone HEmlock 4-5708

LILACS

LILACS

FRENCH HYBRIDS

A list of 25 fine varieties grown from cuttings which guarantee own-root stock. Sizes available: 2 to 3 ft., 3 to 4 ft. and 4 to 5 ft. Ideal for landscape and retail store trade. Write for list and prices.

THE SIEBENTHALER CO.

3001 Catalpa Dr. Dayton 5, O.

Sell Stock Quickly and Easily with

American Nurseryman Classified Ads.

LINING-OUT STOCK

LINING-OUT STOCK

Per 100 Per 1000

Acer ginnala, 1-yr. seedlings,

6 to 9 ins. \$ 7.00 \$ 60.00

Acer ginnala, 1-yr. seedlings,

9 to 12 ins. 8.50 75.00

Acer pal. atropurpureum,

3-yr., TT, FR, grafts,

12 to 15 ins. 150.00 1400.00

Ampelopsis vitchi, 1-yr.

seedlings, No. 1 7.00 60.00

Ampelopsis vitchi, 2-yr.,

T, FR, 3 to 5 ins. 30.00 250.00

Azalea mollis, seedlings, mixed;

T, beds, 4 to 6 ins. 25.00 200.00

Berberis, Pigmy, dwarf red;

2-yr., T, beds, 4 to 6 ins. 40.00 300.00

Cornus florida, grafting size,

1-yr. seedlings 5.00 45.00

Cotoneaster divaricata, 2-yr.,

T, FR, 12 to 15 ins. 25.00 200.00

Cydonia japonica, 1-yr.

seedlings, 6 to 9 ins. 4.50 40.00

Fagus sylvatica, 4-yr., TT,

FR, 12 to 18 ins. 40.00 350.00

Fagus sylvatica, 4-yr., TT,

FR, 2 to 3 ft. 50.00 450.00

Ginkgo biloba, 1-yr. seedlings,

3 to 5 ins. 7.50 70.00

Ilex aquifolium (Eng. Holly),

2-yr., T, beds, staked,

18 to 24 ins. 75.00 650.00

Koeleria paniculata, 1-yr.

seedlings, 3 to 6 ins. 6.00 50.00

Liquidambar styraciflua,

1-yr. seedlings, 4 to 5 ins. 7.50 65.00

Liquidambar styraciflua,

1-yr. seedlings, 6 to 9 ins. 9.00 80.00

Picea canadensis alba, 4-yr.,

T, beds, 6 to 9 ins. 20.00 150.00

Pieris japonica, 1-yr., T, beds 15.00 100.00

Pieris japonica, 2-yr., T, beds 35.00 300.00

Pieris japonica, 3-yr., T, beds 45.00 400.00

Pieris japonica, PINK,

3-yr., T, beds 55.00 500.00

Quercus palustris, 1-yr.

seedlings, 6 to 9 ins. 6.00 50.00

Quercus palustris, 1-yr.

seedlings, 9 to 15 ins. 9.50 80.00

Quercus palustris, 2-yr., T,

FR, 12 to 18 ins. 20.00 150.00

Quercus palustris, 3-yr.,

TT, FR, 2 to 3 ft. 40.00 350.00

Quercus palustris, 3-yr.,

TT, FR, 3 to 4 ft. 50.00 450.00

Taxus brevifolia, 2-yr., T, beds 30.00 250.00

Taxus brevifolia, 3-yr., T, beds 45.00 400.00

Taxus cuspidata, upright, seedlings,

2-yr. (over 5000, \$70.00 per

1000) 10.00 90.00

Taxus cuspidata, upright, seed-

lings, 3-yr. 15.00 120.00

Taxus cuspidata, upright, 3-yr.,

T, beds 20.00 150.00

Taxus cuspidata, upright, 4-yr.,

TT, beds 30.00 250.00

Taxus densiformis, 3-yr.,

T, beds 45.00 400.00

Taxus densiformis, 4-yr.,

TT, FR, 6 to 9 ins., heavy 60.00 550.00

Taxus hatfieldi, 3-yr., T, beds 45.00 400.00

Taxus hatfieldi, 4-yr., TT,

FR, 6 to 9 ins., heavy 60.00 550.00

Tilia cordata, 1-yr., seedlings,

4 to 6 ins. 6.00 50.00

Tilia cordata, 3-yr., T, FR,

2 to 3 ft. 35.00 300.00

Tilia cordata, 3-yr., T, FR,

3 to 4 ft. 50.00 450.00

Zelkova serrata, 1-yr.

seedlings, 6 to 9 ins. 4.50 40.00

Zelkova serrata, 1-yr.

seedlings, 9 to 12 ins. 5.50 50.00

Zelkova serrata, 2-yr., T,

FR, 15 to 18 ins. 18.00 150.00

(Substitute for American Elm, not subject

to Dutch Elm disease.)

T—once transplanted; TT—twice trans-

planted; FR—field row.

BOULEVARD NURSERIES, INC.

New York, R. I.

Phone VI 6-1263

LINING-OUT STOCK

Abelia sherwoodii, 8 to 10 ins. \$0.15

Acacia palmatum, 18 to 24 ins. .25

10 to 12 ins. .15

2 to 3 ft. .50

Banksia Rose, white; 8 to 10 ins. .20

Buxus harlandi, 6 to 8 ins. .15

Buxus sempervirens, 6 to 8 ins. .15

Buxus suffruticosa, 4 to 6 ins. .15

Cephalotaxus harringtonia fortunei

(Plum Yew), 8 to 10 ins. .15

Cercia canadensis (Redbud),

18 to 24 ins. .10

2 to 3 ft. .15

Cotoneaster divaricata, 10 to 12 ins. .20

6 to 8 ins. .15

Cotoneaster francheti, 8 to 10 ins. .15

Cotoneaster horizontalis, 8 to 10 ins. .20

6 to 8 ins. .15

Cotoneaster microphylla, 6 to 8 ins. .15

Cotoneaster parneyi, 8 to 10 ins. .15

Cunninghamia glauca (Blue China

Fir), 8 to 10 ins. .20

15 to 18 ins. .15

Cunninghamia, green; 8 to 10 ins. .15

Elaeagnus fruitlandi, 8 to 10 ins. .15

Eriobotrya japonica (Loquat),

1-yr., 2 to 6 ft. .10

Fatshedera, 6 to 8 ins. .15

Forsythia, 12 to 15 ins. .12 1/2

15 to 18 ins. .15

Hypericum, 12 to 15 ins. .15

Ilex cassine attenuata, 10 to 12 ins. .20

8 to 10 ins. .15

Ilex cassine, 10 to 12 ins. .20

8 to 10 ins. .15

Ilex cornuta femina, 8 to 10 ins. .15

Ilex cornuta burfordi, 10 to 12 ins. .20

6 to 8 ins. .12 1/2

8 to 10 ins. .15

Ilex crenata bullata, 8 to 10 ins. .15

Ilex crenata rotundifolia, 8 to 10 ins. .15

Ilex opaca East Palatka, 8 to 10 ins. .15

Ilex opaca fosteri, 10 to 12 ins. .20

8 to 10 ins. .15

Ilex opaca Hume No. 2, 8 to 10 ins. .15

Ilex vomitoria femina, 10 to 12 ins. .15

Illicium anisatum (Anise), 8 to 10 ins. .15

Jasminum floridum, 12 to 15 ins. .15

10 to 12 ins. .12 1/2

Jasminum nudiflorum, 12 to 15 ins. .15

10 to 12 ins. .12 1/2

Juniperus pfitzeriana, 8 to 10 ins. .15

Juniperus pfitzeriana glauca hetzi

(blue vase-shaped), 8 to 10 ins. .15

Loropetalum chinense, 10 to 12 ins. .20

8 to 10 ins. .15

Lonicera nitida, 8 to 10 ins. .15

Lonicera yunnanensis, 8 to 10 ins. .15

Ligustrum nepalense, 12 to 15 ins. .15

Ligustrum lucidum, 12 to 15 ins. .15

Magnolia grandiflora (1-yr. seedling),

4 to 6 ins. .10

Mahonia bealei, 8 to 10 ins. .15

Nandina, 4 to 6 ins. .15

Osmanthus fragrans, 8 to 10 ins. .15

Osmanthus fortunei, 10 to 12 ins. .20

8 to 10 ins. .15

Pinus pinaster, 8 to 10 ins. .10

Pinus pinea, 8 to 10 ins. .10

Pinus strobus, 8 to 10 ins. .15

Pyracantha (red berry), cutting,

grown, good var., 12 to 15 ins. .15

Raphiolepis japonica, 8 to 10 ins. .15

Retinispora ericoides, 10 to 12 ins. .15

8 to 10 ins. .12 1/2

Salix discolor, 2 to 3 ft. .15

Salix (Weeping Willow), 3 to 4 ft. .15

Sasanqua Cleopatra, 12 to 15 ins. .20

10 to 12 ins. .17 1/2

Sasanqua rosea, 12 to 15 ins. .20

10 to 12 ins. .17 1/2

Sophora japonica, 4 to 5 ft. .25

3 to 4 ft. .15

Thrift, white; 3 to 6 ins. .

LINING-OUT STOCK

Bedded 1-yr. in the open.	100	1000
Ilex convexa	\$20.00	\$180.00
Ilex rotundifolia	20.00	180.00
Ilex hetzi	20.00	180.00
Juniperus pfitzeriana	20.00	180.00
Juniperus hetzi	20.00	180.00
Taxus andersonii	20.00	175.00
Taxus brevifolia	20.00	175.00
Taxus capitata, cutting-grown	25.00	225.00
Taxus capitata, Adams	25.00	225.00
cutting-grown	25.00	225.00
Taxus canadensis stricta	16.00	150.00
Taxus cuspidata	17.50	150.00
Taxus hatfieldi	17.50	150.00
Taxus hunnewelliana	17.50	150.00
Taxus hicksii	17.50	150.00
Taxus intermedia	20.00	175.00
Taxus densiformis	20.00	175.00
Taxus vermeulenii	17.50	150.00
Taxus wardii	17.50	150.00
Taxus Moon's columnaris	20.00	175.00
Taxus brownii	17.50	150.00

2-yr. bedded in the open.	100	1000
Ilex convexa, 6 to 9 ins.	\$25.00	\$200.00
Ilex rotundifolia, 6 to 9 ins.	25.00	200.00
Ilex hetzi, 6 to 9 ins.	25.00	200.00
Taxus Adams col., 12 to 15 ins.	50.00	450.00
Taxus Moon's col., 8 to 12 ins.	30.00	250.00
Taxus cuspidata, 6 to 9 ins.	30.00	250.00
Taxus hatfieldi, 6 to 9 ins.	30.00	250.00
Taxus cuspidata comp.	30.00	250.00
6 to 9 ins.	30.00	250.00
Taxus hunnewelliana, 6 to 9 ins.	30.00	250.00
Taxus brownii, 6 to 9 ins.	30.00	250.00
Taxus intermedia, 6 to 9 ins.	30.00	250.00

TAXUS CAPITATA, SEEDLING-GROWN	100	1000
1-yr. seedlings	\$6.00	\$50.00
2-yr. seedlings	10.00	90.00
3-yr. seedlings	17.50	150.00
4-yr. seedlings, transplanted, 6 to 10 ins.	30.00	250.00

CORNUS FLORIDA (WHITE DOGWOOD)	100	1000
Seedlings		
1-yr., No. 1 grade	\$6.00	\$50.00
1-yr., No. 2 grade	5.00	40.00
1-yr., No. 3 grade	4.00	30.00
2-yr., No. 1 grade	12.50	100.00
2-yr., No. 2 grade	10.00	90.00

Full list on request.
VERKADE'S NURSERIES, WAYNE, N. J.

POT-GROWN GRAFTS, MAY SHIPMENT

Acer palmatum atropurpureum	Per 100	Per 1000
Acer pal. atro. Bloodgood	75.00	750.00
Acer dissectum	75.00	750.00
Acer dissectum atropurpureum	75.00	750.00
Abies nobilis glauca	100.00	1000.00
Abies nordmanniana	100.00	1000.00
Biota aurea nana	50.00	500.00
Cedrus atlantica glauca	75.00	750.00
Cedrus atlantica aurea	100.00	1000.00
Cedrus deodara pendula	100.00	1000.00
Carpinus betulus fastigiata	60.00	600.00
Cornus florida rubra	50.00	500.00
Cornus florida rubra Frosser	65.00	650.00
Cornus florida pendula	50.00	500.00
Cornus florida welchii var.	65.00	650.00
Cornus florida flore-plena	60.00	600.00
Cornus kousa chinensis	60.00	600.00
Cornus kousa speciosa	60.00	600.00
Fagus sylvatica riversi	60.00	600.00
Fagus sylvatica purp. pendula	75.00	750.00
Fagus sylvatica pendula	60.00	600.00
Fagus sylvatica tricolor	75.00	750.00
Fagus sylvatica heterophylla	60.00	600.00
Fagus sylvatica fastigiata	60.00	600.00
Hamamelis mollis	50.00	500.00
Hamamelis brevipedata	75.00	750.00
Picea pung. glauca moenchii	125.00	1250.00
Picea pung. glauca hoopsii	125.00	1250.00
Picea pung. glauca pendula	100.00	1000.00
Picea pung. pendula	100.00	1000.00
Picea excelsa pendula	100.00	1000.00
Picea excelsa nudiformis	100.00	1000.00
Picea excelsa remontii	100.00	1000.00
Picea excelsa gregoryana	100.00	1000.00
Picea excelsa inversa pendula	100.00	1000.00
Pinus cembra	60.00	600.00
Pinus watereri glauca	60.00	600.00
Pinus strobus nana	60.00	600.00
Pinus strobus fastigiata	60.00	600.00
Pinus strobus pendula	60.00	600.00
Pinus parviflora glauca	60.00	600.00
Pine, Tanyosho	60.00	600.00

Full list on request.
VERKADE'S NURSERIES, INC.
Wayne, N. J.

LINING-OUT STOCK

Cherry Laurel, 6 to 12 ins.	Per 100	Per 1000
Dogwood, white-flowering, 6 to 12 ins.	3.00	20.00
18 to 24 ins.	5.00	40.00
Euonymus, green, rooted cuttings	3.00	25.00
Live Oak, 6 to 12 ins.	3.00	25.00
12 to 18 ins.	4.00	35.00
Water Oak, 12 to 18 ins.	4.00	35.00
Magnolia grand., 3 to 5 ins.	4.00	30.00
4 to 8 ins.	5.00	40.00
12 to 24 ins.	10.00	90.00
Yaupon Holly, 4 to 8 ins.	3.00	25.00
Wax Ligustrum, transplants	4.00	35.00
Slash Pine, 12 to 18 ins.	3.00	20.00
Simoes, 6 to 18 ins.	3.00	20.00
Gardenias, fortunei, Mystery, radicans, stricta, nana, rooted cuttings	3.00	25.00

L. H. BUTTER NURSERY
Forest Hills, La.

QUALITY LINERS

Grown in soil fumigated with methyl bromide and expertly packed for safe handling.

Abelia grandiflora	Per 100
8 to 12 ins., bare-root	\$15.00
12 to 18 ins., bare-root	25.00
18 to 24 ins., bare-root	40.00
Gardenias, Mystery and radicans	
6 to 8 ins., bare-root	10.00
8 to 12 ins., bare-root	14.00
Ilex burfordi	
2 1/2-in. pots	15.00
Ilex cornuta femina	
Extra nice 2 1/2-in. pots	18.50
Ilex hetzi (reflexa supreme)	
2 1/2-in. pots	16.00
8 to 12 ins., bare-root	14.00
Ilex, rotundifolia and Biloxi	
6 to 8 ins., bare-root	12.50
Ligustrum lucidum	
6 to 8 ins., bare-root	11.00
8 to 12 ins., bare-root	14.00
Magnolia soulangeana	
8 to 12 ins., bare-root	25.00
Sasanqua, Cleopatra and rosea	
6 to 8 ins., bare-root	15.00
8 to 12 ins., bare-root	17.50
12 to 18 ins., bare-root	22.50
Spiraea reevesiana (double white)	
12 to 18 ins., bare-root	25.00
18 to 24 ins., bare-root	35.00
Azaleas, Camellias, Ilex, Pyracantha, etc., in container and B&B, assorted sizes. Write for price list.	

STEPHENS NURSERIES

Semmes, Ala.

ROOTED CUTTINGS

Berckmans' Arborv.	Each	100	1000
Spiny Greek Juniper	Blue Lawson		
Retinispora ericoides	Retinispora ericoides		
Baker's Arborvitae	Podocarpus		
Globe Arborvitae	Green Pittosporum		
Pfitzer Juniper	Ilex East Palatka		
Ilex burfordi	Photinia serrulata		
Ilex bullata	Photinia glabra		
Hetz Juniper			
3 to 5 ins., rooted cuttings	\$1.00	\$6.00	\$50.00
Photinia glabra			
Var. Pittosporum			
4 to 6 ins.	\$1.50	\$10.00	\$75.00
Dwarf Euonymus	Viburnum suspensum		
Viburnum odorat.	Buxus japonica		
Buxus harlandi	Ilex rotundifolia		
Gardenia radicans	Gardenia fortunei		
4 to 6 ins.	\$1.00	\$6.00	\$50.00
3 to 5 ins., rooted cuttings	.75	5.00	40.00
Viburnum odorat.	Buxus japonica		
Photinia serrulata	Baker's Arborvitae		
Buxus harlandi	Ilex burfordi		
Globe Arborvitae			
6 to 8 ins.	\$2.00	\$12.50	\$100.00
Podocarpus	Photinia glabra		
Ilex rotundifolia	Gardenia fortunei		
Gardenia radicans	Ilex bullata		
6 to 8 ins.	\$2.00	\$12.50	\$100.00
8 to 12 ins.	2.50	15.00	125.00

FLOWERWOOD NURSERY

P. O. Box 206, Cairo, Ga.

SURPLUS BARE-ROOT PLANTS

2-yr. lining-out plants, ready for cans or field.	Each	100	1000
5,000 Ligustrum luc. rec.			
6 to 8 ins.	\$0.12	\$10.00	\$10.00
10,000 Ligustrum luc. rec.			
8 to 12 ins.	.15	12 1/2	12 1/2
1,000 Ligustrum luc. rec.			
12 to 18 ins.	.22	20	20
4,000 Ilex rotundifolia			
6 to 8 ins.	.15	12 1/2	12 1/2
1,000 Ilex rotundifolia			
8 to 12 ins.	.17 1/2	15	15
20,000 Ilex cornuta burfordi			
6 to 8 ins.	.15	12 1/2	12 1/2
5,000 Ilex cornuta burfordi			
8 to 12 ins.	.17 1/2	15	15
1,000 Magnolia grandiflora			
4 to 6 ins.	.08	.07	.07
1,000 Magnolia grandiflora			
6 to 8 ins.	.10	.09	.09
500 Magnolia grandiflora			
12 to 18 ins.	.17 1/2	15	15
1,000 Magnolia grandiflora			
18 to 24 ins.	.22	20	20
10,000 Mimosa (Albizia julibrissin)			
12 to 24 ins.	.05	.04	.04
10,000 Mimosa, 24 to 36 ins.	.07 1/2	.06 1/2	.06 1/2

Free packing when cash received with order.
500 plants at 100 rate.
GILMORE PLANT & BULB CO.
Julian, N. C.

ROOTED CUTTINGS

Arborvitae, pyramidal, 6 to 8 ins.	Each	100	1000
Arborvitae, woodwardi, 6 to 8 ins.	.10	.09	.09
Juniper, Hetz, 6 to 8 ins.	.10	.09	.09
Juniper, Pfitzer, 6 to 8 ins.	.10	.09	.09
Juniper, Von Ehron, 6 to 8 ins.	.10	.09	.09
Taxus cuspidata, 6 to 8 ins.	.09	.08	.08
Taxus brownii, 6 to 8 ins.	.10	.09	.09
Taxus capitata, 6 to 8 ins.	.13	.12	.12
Am. Arborvitae, 2-yr., S, 2 to 4 ins.	\$20.00		
per 1000.			
5 per cent discount, cash with order.			
MEADOWLARK NURSERY			
250 Maynard, N. W.			
Grand Rapids, Mich.			

ROOTED CUTTINGS

Most of these cuttings were rooted last winter and have been heeled-in outside since then. Immediate delivery.

Ilex crenata	5c each
Ilex Willowleaf	5c each
Juniper, Andorra	6c each
Juniper, hetzi glauca	6c each
Juniper, spreading (good)	5c each
Taxus andersonii	7c each
Taxus cuspidata	7c each
Taxus E No. 1 (good)	7c each
Taxus Halloran	7c each
Taxus hatfieldi	7c each
Taxus kelseyi	7c each
Taxus T-31	7c each
Taxus uprights (mixed)	6c each
Per 100	
Taxus baccata, 6 to 8, X	\$22.00
Taxus brownii, 6 to 8, X	22.00
Taxus cuspidata, 8 to 10, X	27.00
Taxus E No. 1 (GOOD), 8 to 10, X	27.00
Taxus Halloran, 6 to 8, X	22.00
Taxus hatfieldi, 8 to 10, X	27.00
Taxus kelseyi, 6 to 8, X	22.00
Taxus Jefferson, 6 to 8, X	22.00
Taxus kelseyi, 6 to 8, X	22.00
Taxus T-31, 6 to 8, X	22.00
Taxus T-33, 8 to 10, X	27.00

Free packing. Write for complete list.
ESHAM'S NURSERIES
Millsboro, Del.

SURPLUS LINING-OUT SHRUBS

TOP GRADE	Each
200 Forsythia Spring Glory, 18 to 24 ins.	15c
100 Forsythia Spring Glory, 12 to 18 ins.	8c
150 Clavey's dwf. Honeysuckle, 12 to 15 ins.	12c
300 Clavey's dwf. Honeysuckle, 9 to 12 ins.	10c
250 Clavey's dwf. Honeysuckle, 6 to 9 ins.	8c
100 Persian Lilac, 2 to 3 ft.	25c
150 Persian Lilac, 18 to 24 ins.	20c
250 Privet, Lodense, 12 to 15 ins.	15c
300 Privet, Lodense, 6 to 12 ins.	10c
200 Privet, Eng. pyramidal, 6 to 12 ins.	10c
200 Viburnum carlesii, 2 1/2-in. pots	20c
150 Viburnum opulus xanthocarpum, 2 1/2-in. pots	20c
50 Corkscrew Willow, 4 to 6 ft.	25c
300 Niobe Weeping Willow, 4 to 5 ft.	25c
300 Niobe Weeping Willow, 2 to 3 ft.	10c
Green Ash, seedlings, 12 to 18 ins.	\$20.00
per 1000; 6 to 12 ins., \$15.00 per 1000.	
Clean on crown gall.	
Cash with order, free packing.	
TONICA NURSERIES, TONICA, ILL.	

LINING-OUT STOCK

IN 6-IN. CANS AND FIELD

Abelia grandiflora, 3 and 4-yr.
Azaleas, in variety; all sizes
Camellias (Sasanqua), 4 varieties
Cornus rubra, 3 to 5-yr.
Coneasters, horizontalis and divaricata
Cherry Laurel, Schipkaensis, 3 and 4-yr.
Euonymus, ground cover and upright
Hawthorne, Washington, 3-yr.
Hydrangea Nikko Blue
Leucothoe catesbaei, 2 and 3-yr.
Pyracantha landali, 2 to 4-yr.
Pieris japonica, all sizes
Taxus, cuspidata, capitata and Hicks
Many other items not listed here in cans and field.

We do not ship the canned stock. Come see and select. Part of our land has been sold and landscape material on it must be removed at once. Come name your price and dig your own.

WESTWOOD GARDENS

54 Lane Ave. Caldwell, N. J.

SURPLUS TREES

Pink Dogwood, 6 to 12 ins.	\$0.40 each
Pink Dogwood, 12 to 18 ins.	.50 each
Pink Dogwood, 18 to 24 ins.	.75 each
Pink Dogwood, 2 to 3 ft.	1.00 each
(Tied 25 and 10 to a bundle.)	
White Dogwood, 18 to 24 ins., br.	.20 each
White Dogwood, 2 to 3 ft., br.	.35 each

FLOWERING PEACH TREES, tied 25.

Double red, white and peppermint flowering Peaches, June buds.

6 to 18 ins.	\$0.15 each
18 to 24 ins.	.20 each
2 to 3 ft.	.25 each
3 to 4 ft. whips	.30 each
Write for other surplus trees and shrubs list.	

GLOBE NURSERIES

Box 249 McMinnville, Tenn.

LINERS FROM FIELD BEDS

Taxus brownii, 1-yr., T, 6 to 8 ins.	Per 100
brownii, 2-yr., T, 8 to 10 ins.	\$17.50
brownii, 3-yr., T, 8 to 12 ins.	35.00
hatfieldi, 1-yr., T, 6 to 8 ins.	17.50
hatfieldi, 2-yr., T, 8 to 10 ins.	25.00
hatfieldi, 3-yr., T, 10 to 12 ins.	35.00
hatfieldi, 4-yr., TT, 10 to 14 ins., hvy.	50.00
Kelseyi, upr., 2-yr., TT, 8 to 10 ins.	25.00
Ilex opaca, vars.: Farage, Merry Christmas, male, 3-in. pots, 6 to 10 ins.	35.00
3 to 4-in. pots, 12 to 18 ins.	75.00
Zelkova serrata, 2-yr. sdgs., 15 to 24.	20.00

BLAKE'S NURSERY

P. O. Box 93 Saddle River, N. J.

LINING-OUT STOCK—Continued

HEAVY 3-YR. TRANSPLANTS, SHEARED	
Taxus browni, 10 to 12 ins.	
Taxus cuspidata, 10 to 12 ins.	
Taxus densiformis, 10 to 12 ins.	
Taxus Halloran, 10 to 12 ins.	
Taxus henryi, 10 to 12 ins.	
Taxus hicksii, 10 to 12 ins.	
Taxus Moon's columnaris, 10 to 12 ins.	
Taxus Seabian intermedia, 10 to 12 ins.	
Taxus hunnewelliana, 10 to 12 ins.	
Taxus thayerae, 10 to 12 ins.	
Taxus wardi, 10 to 12 ins.	
Taxus capitata, 3-yr. seedlings, 6 to 9 ins.	
Thuja occidentalis, 3-yr. transp., 8 to 10 ins., heavy	
Picea excelsa, selected understocks, transp.	
Samples upon receipt of postage.	
VERKADE'S NURSERIES	
New London, Conn.	

COLLECTED SEEDLINGS		Per 100	Per 1000
Betula papyrifera (Paper Birch)			
1 to 2 ft.	\$15.00	\$120.00	
2 to 3 ft.	20.00	150.00	
3 to 4 ft.	25.00		
Betula populifolia (Gray Birch)			
1 to 2 ft.	7.00	60.00	
2 to 3 ft.	12.00	100.00	
3 to 4 ft.	15.00	125.00	
Fagus grandifolia (American Beech)			
6 to 12 ins.	6.00	50.00	
Viburnum cassinoides (Witherod)			
1 to 2 ft.	10.00	80.00	
Send for complete trade list of hardy native Ferns, wildflowers, Evergreens, trees and shrubs.			

ISAAC LANGLEY WILLIAMS
Box AN Exeter, N. H.

HEAVY LINERS FOR SPRING		Each
Azalea mollis		\$0.25
1-yr., TT		.35
2-yr., TT, br.		.75
3-yr., TT, potting grade, budded		.45
Leucothoe catesbaei		.75
7 to 12 ins.		.45
Pieris floribunda		.75
9 to 15 ins. budded		.75
Pieris japonica		.45
6 to 12 ins.		.75
12 to 15 ins.		.75
Rhododendron hybrid seedlings		.15
9 to 15 ins.		.45
Ilex hetsi		.45
9 to 15 ins.		

DUGAN NURSERIES, INC.
Center St. Perry, O.

LINING-OUT STOCK
Concolor Fir and Douglas Fir, (4-3) transplants, 10 to 15 ins., 25c each.
White Pine, Blue Spruce, (3-3) transplants, 20c each.
Taxus browni, 4-yr. transplants, 45c each.
Taxus cuspidata, 4-yr. transplants, 35c each.
Ilex, opaca and aquifolium female, 3-yr. transplants, 45c each; burfordi, 4-yr. transplants, 55c each.
Pin Oak, transplants, 3/4 to 1 1/4-in. cal., 5 to 6 ft., \$1.35; 6 to 7 ft., \$1.65 each. B&B, 50c extra.
10 per cent discount for delivery before April 15. Pickup or delivery.
BROUSE BROS. NURSERY
4 W. Mount Kirk Ave. Norristown, Pa.
Phone Broadway 5-5682

QUALITY LINERS		Per 100
Mugho Pine (dwarf), 3 to 5 ins., tr.		\$15.00
White Pine, 6 to 14 ins., tr.		15.00
Douglas Fir (blue), 5 to 10 ins., tr.		15.00
Colorado Blue Spruce, 5 to 10 ins., tr.		17.50
Koeleria pan., 12 to 15 ins.		20.00
Styrax japonica, 12 to 18 ins.		20.00
Canadian Hemlock, 5 to 12 ins., tr.		20.00
Enkianthus camp., 4 to 8 ins., tr.		22.50
Viburnum carlesii, 12 to 15 ins.		22.50
Leucothoe catesbaei, 4 to 8 ins., tr.		25.00
Dwarf Alberta Spruce, 5 to 10 ins.		30.00
French Hybrid Lilacs, 1-yr. grafts		35.00
Send for new spring list.		

POSSUM HOLLOW NURSERIES
6909 Henry St. Philadelphia 19, Pa.

QUALITY FIELD-ROW TRANSPLANTS		Per 100	Per 1000
Try some if you want the best.			
Andorra Juniper, 8 to 10, T.	\$15.00	\$125.00	
Canadian Hemlock, 10 to 15, TT	25.00	225.00	
Globe Arborvitae woodwardi, 8 to 10, TT	25.00	225.00	
Pfitzer Juniper, 10 to 15, TT	30.00	275.00	
Pyramidal Arb., 10 to 15, TT	27.50	250.00	
Taxus cuspidata (spreading Yew), 10 to 15, TTT	35.00	300.00	
Free packing. Cash with order. 300 at 1000 rate.			

WHERRY NURSERIES, ST. MARYS, W.VA.

LINERS, IN 2 1/4-IN. PEAT POTS		Ready May 1.
Alpine Currant	12c	
Dogwood, variegated	15c	
Hydrangea, P. G.	12c	
Forsythia Lynwood Gold	12c	
Dwarf Ninebark	12c	
Spiraea froebelii	12c	
Snowballs	15c	
Prices are F.O.B. Lake City, Minn.		
NEWLAND'S NURSERY		
Lake City, Minn.		

OPEN BEDS		Per 100
1-yr. Pachistima canbyi		\$0.25
2-yr. Taxus browni		.30
2-yr. Taxus hicksii		.30
2-yr. Taxus cuspidata		.30
2-yr. Ilex convexa (bullata)		.25
2-yr. Buxus weileri (Boxwood)		.25
2-yr. Euonymus Sarcocoe		.20
3-yr. Euonymus Sarcocoe		.25
2-yr. Mahonia, seedlings		.07
2-yr. Mahonia, transplants		.20
2-yr. Euonymus alatus comp., outdoor prop. bed		.08

R. R. 1 WHITEMAN'S GARDENS, Plymouth, Ind.

PIERIS JAPONICA		500	1000
2-yr., T. bed, 6 to 8 ins.		\$0.20	\$0.15
4-yr., TT, bed-run, 6 to 8 ins.			
8 to 10 ins.	.35	.30	
3-yr., well-branched, 18 to 21 ins.	1.50	1.25	
CORNUS FLORIDA			
2-yr., 3 ft., graft, bare-root		.80	.60
4-yr., T. bed, 2 to 4 ft., bare-root			
FIELD-RUN PIERIS JAPONICA			
12 to 15 ins.	1.50	1.25	
SOWAM'S NURSERY			
82 Sowams Rd. Barrington, R. I.			

LINING-OUT STOCK

SEE OUR DISPLAY AD
IN THIS ISSUE
ON PAGE 26.

CARTWRIGHT NURSERIES
Collierville, Tenn.

FIELD-GROWN LINERS

		100 rate
Ilex crenata rotundifolia, 6 to 8 ins.		\$10.00
Ilex crenata rotundifolia, 8 to 10 ins.		12.00
Ilex crenata rotundifolia, 10 to 12 ins.		15.00
Ilex crenata bullata, 12 to 18 ins.		18.00
Ilex crenata bullata, 6 to 8 ins.		8.00
Ligustrum lucidum (Wax), 6 to 8 ins.		8.00
EUBANK NURSERY		
Cape Charles, Va.		
Phone Cape Charles 843 or 533.		

100,000 FIELD-GROWN LINERS
Canada Hemlock, 5-yr., heavy rooted, TT, \$15.00 per 100, \$100.00 per 1000.
Norway Spruce, 4-yr., TT, \$8.00 per 100, \$50.00 per 1000.
Hard Sugar Maple, 3 to 4 ft., \$25.00 per 100.

Free packing on liners.
KANEFF'S NURSERIES
Glendale Rd. Marietta, O.

MAGNOLIAS

MAGNOLIA GRANDIFLORA		2 1/4-in. diam.
8 to 10 ins.		12c
10 to 16 ins.		16c
16 to 20 ins.		18c
Qt. cans		
12 to 16 ins.		20c
20 to 30 ins.		25c
30 to 36 ins.		30c
B&B stock		
2 to 3 ft.		\$1.50
3 to 4 ft.		2.00
4 to 5 ft.		3.00
5 to 6 ft.		4.00
6 to 7 ft.		5.25
7 to 8 ft.		6.75
The above liners were grown in the open and are hardy. The B&B stock will be wrapped in rot-proof burlap and string if so desired. Plants root pruned.		
BIG RIVER NURSERY, DUNDEE, MISS.		
Phone 572-R4, Tunica, Miss.		

ORIENTAL MAGNOLIAS
Well-budded and generously graded B&B Magnolias, going fast. Only one variety and two grades in storage still unsold.
Soulangeana Per 100 Per 1000
3 to 4 ft. \$30.00 \$275.00
4 to 5 ft. 37.50 350.00
Priced F.O.B. nursery.
SHADY PARK NURSERY
R. R. 3 Columbia City, Ind.
Phone 3126W evenings

NEW ROYAL STAR HARDY MAGNOLIA
Large, fragrant pure white blossoms with 25 to 30 petals, a week to 10 days after stellata. Compact plant with bright green foliage. Sturdy, 18 to 24-in. plants in 1-gal. nursery, 10 plants per special crate, \$34.50; 3 crates, \$32.20; 5, \$29.50; 10, \$27.00. 20c per plant less at nursery. 2 per cent for cash. Shipped now or later.
JOHN VERMEULEN & SON, INC.
P. O. Box 3364 Neshanic Station, N. J.

MAGNOLIAS Each, 100
Alexandrina, 2-yr., T cuttings, 18 to 24 ins. \$0.75
Soulangeana, 1-yr., T cuttings. .50
2-yr., T cuttings, 18 to 24 ins. .75
WHERE QUALITY EXCELS. NO CHARGE FOR PACKING.
C. HOOGENDOORN, NURSERYMAN
408 Turner Rd. Newport, R. I.

MAPLES

JAPANESE RED MAPLES
(Acer palmatum atropurpureum)
Carefully selected. Finest red only.
For spring 1961.

2-yr. transplants ready for field planting.

LIGHTER GRADE		Each, 100 more
2-yr., light branched, 8 to 10 ins.	\$0.33	\$0.30
2-yr., light branched, 10 to 12 ins.	.38	.35
2-yr., light branched, 12 to 15 ins.	.45	.42
HEAVY GRADE		
2-yr., nicely branched, 8 to 10 ins.	.40	.38
2-yr., nicely branched, 10 to 12 ins.	.48	.45
2-yr., nicely branched, 12 to 15 ins.	.55	.50
Large enough for 6-in. pot for immediate resale. From well-spaced open beds. Extra nice.		
3-yr., well-branched, 12 to 15 ins.	\$0.80	\$0.75
3-yr., well-branched, 15 to 18 ins.	.95	.90
3-yr., well-branched, 18 to 21 ins.	1.15	1.10
Extra heavy from field rows		
4-yr., bushy, 10 to 15 ins.	1.10	1.05
5-yr., bushy, 12 to 15 ins.	1.40	1.30
Shipped dormant. Packed in sphagnum.		
Early spring.		
20 per cent deposit on all orders, balance before delivery or C.O.D.		

HUBBS NURSERIES
612 Route 130 Riverton, N. J.
Specializing in Jap. Red Maples 15 years.

SUGAR MAPLE

		Per 100
5 to 7 ft., 1 1/4-in. cal. up.		\$42.50
5 to 7 ft., 3/4-in. cal. up.		60.00
6 to 8 ft., 3/4-in. cal. to 1-in.		87.50

FOR BUSHEL BASKET
Sell them during the summer.
We have several 2 to 3-in. in Sugar and rubrum, to be picked up, or truck delivery on smaller sizes, add packing cost.

These are native, open field-grown trees, well spaced. Straight good tops and roots.
JOHN L. KOLBE NURSERY
Myrtle Blanket King
4806 Eastern Ave., S.E., Grand Rapids, Mich.
Phone LE 2-9017.

SUGAR MAPLE WHIPS

6 to 8 ft., slightly branched,	\$60.00 per 100,
\$450.00 per 1000.	
SUGAR MAPLE	
BRANCHED, 7 to 10 ft.,	
\$80.00 per 100.	

HAROLD GASKILL, NEWFANE, N. Y.

NORWAY MAPLE

		Over
Straight, nursery-grown	10-40	50
10 to 12 ft., 1 1/4 to 1 1/2-in.	\$6.75	\$5.50
11 to 13 ft., 1 1/4 to 2-in.	7.75	6.50
12 to 14 ft., 2 to 2 1/2-in.	11.00	9.00

No shipping.
HEYKOO'S NURSERY
466 Newark Pompton Turnpike
Pompton Plains, N. J.

SUGAR MAPLE LINERS

5 to 6 ft., br.	\$0.60
6 to 8 ft., br.	1.00
1 1/4 to 1 1/2-in. br.	1.00
1 1/2 to 2-in. br.	4.00

STRAUS LANDSCAPE NURSERY
202 E. Circle Ave. Prospect Heights, Ill.
Phone CL 3-2296, Call evenings.

NORWAY MAPLES

Nursery-grown, good heads.
Sizes from 1 1/4 to 5-in. cal. Special prices on surplus sizes from 3 to 5-in. cal.
FEENEY'S NURSERY
Bustleton Pike Feasterville, Pa.
2 miles from Phila. exit of turnpike

MAPLES

COLLECTED ACER
RUBRUM AND SACCHARUM
from whips to 4-in. caliper.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

Acers, saccharum and rubrum	100	1000
1 to 1 1/2-in. cal.	\$120.00	\$1000.00
1 1/2 to 2-in. cal.	240.00	2200.00
2 to 2 1/2-in. cal.	500.00	4500.00
R. H. Rogers Nursery, Cooperstown, N. Y.		

Acers, saccharum and rubrum
2 to 2 1/2-in. cal., B&B. \$12.00 each
3 to 3 1/2-in. cal., B&B. 24.00 each
4 to 4 1/2-in. cal., B&B. 50.00 each
R. H. Rogers Nursery, Cooperstown, N. Y.

PACHYSANDRAS

800,000 PACHYSANDRAS

Hand-selected, field-grown cuttings.

\$35.00 per 1000.

Free packing, check with order.

MARTIN VIETTE NURSERIES
Route 25-A East Norwich, L. I., N. Y.
Phones, WElls 1-2372 or PEtreshing 1-6255

PACHYSANDRA TERMINALIS

1-yr. field-grown. \$60.00 per 1000.
HOLCROFT GREENHOUSES
Miller Park Franklin, Pa.

200,000

PACHYSANDRAS

Strong rooted cuttings from July, 1960.
Ready now for spring delivery.

\$38.00 per 1000.

\$35.00 per 1000, lots of 5000 or more.

Check with order. Prompt shipment.

Write for free sample.

TOWN & COUNTRY NURSERY

4202 Fordleigh Rd. Baltimore 15, Md.

PACHYSANDRAS

1-yr.-old, frame-grown, well-rooted cuttings, \$5.50 per 100, \$43.00 per 1000; \$40.00 per 1000 for 5000 or more. Order now for immediate delivery.

RUSSELL GUTHRIE

123 Franklin St. Tarrytown, N. Y.

PACHYSANDRAS

Shipped now or reserved for you.

Foliage fed. Greenhouse grown.

Rooted in clean, white, silica sand.

\$35.00 per 1000.

THE JOSEPH F. MARTIN CO.

Painesville, O.

PACHYSANDRA TERMINALIS

Per 100 Per 1000

1-yr., field-grown \$ 5.00 \$ 45.00

3000 or more plants 42.50

2 1/2-in., pot-grown 11.50 105.00

HANSEN BROS. NURSERIES, INC.

Narberth, Pa.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock, \$6.50 per 100, \$53.00 per 1000; \$50.00 per 1000 for 5000 or more, including good packing. Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS

Strong rooted cuttings, \$4.25 per 100,

\$40.00 per 1000. No C.O.D. orders.

DUNWOODIE NURSERIES

6 Smart Ave. Yonkers, N. Y.

PEONIES**PEONIES**

Adolphe Rouseau, Baroness Schroeder, Duchesse de Nemours, Festiva Maxima, Sarah Bernhardt, Lady Alex. Durr, Marie Lemoine, Mons. Jules Elle, Reine Hortense.

3-yr.-old, whole clumps, not divided, 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000.

VERKADE'S NURSERIES, WAYNE, N. J.**GRAFTED TREE PEONIES**

Red, white, pink, purple, 1-yr., \$10.00 per 10; 2-yr., \$15.00 per 10; 3-yr., \$25.00 per 10. Yellow, 1-yr., \$3.00 each; 2-yr., \$4.50 each.

A yellow Tree Peony for \$1.50 with each \$10.00 purchase; 10 yellows for \$15.00 with each \$50.00 purchase. Free Peony list.

ATHA GARDENS, WEST LIBERTY 6, O.**GRAFTED TREE PEONIES**

Red, white, pink, purple and two-tone. 2-yr., \$15.00 per 10, \$125.00 per 100, in balanced assortment. 50 take 100 rate. Pot now for spring sales. Cash with order.

BROOKFIELD GARDENS

Box 88 Brookfield, O.

PHLOX**PHLOX SUBULATA**

(Creeping Phlox)

Admiration, cameo-pink with white eye

Alba, an excellent pure white

Astro, deep orchid-rose

Atropurpurea, rich wine-red

Blue Hills, attractive medium blue

Butterfly, lilac bluish, showy purple eye

Crimson Beauty, brilliant cyclamen-red

Dixie Brilliant, large red, slow grower

Red Wing, finest large flowering red

Sensation, bright pink with red eye

Transplants, \$9.50 per 100, \$90.00 per 1000.

Linera, \$5.00 per 100, \$45.00 per 1000.

250 or more of same variety at 1000 rate.

Prices are prepaid, we pay transportation.

Terms: Cash with order.

TANGLEWOOD FARM

P. O. Box 336-N Ph. 833-2588 Clinton, S. C.

CREeping PHLOX (SUBULATA)

Well-developed, field-grown, best varieties.

Also 500 other popular perennials.

Available any time

for your best use and profit.

WELER NURSERIES CO.

P. O. Box 1111 Holland, Mich.

PHLOX, UPRIGHT AND SUBULATA

Excellent plants for spring 1961. 32 varieties of upright Phlox and 9 varieties of subulata Phlox. All sand-grown.

Write now for list.

RICHARDS GARDENS

Box AN Plainwell, Mich.

Phlox subulata (Creeping Thrift), beautiful evergreen ground cover, large, field-grown plants, beginning to bud, bright red, pure white, rose-pink and blue, \$8.00 per 100, \$60.00 per 1000. Prompt shipment.

Tidwell Nurseries, Greenville, Ga.

HARDY PHLOX

See March 1 issue or write for our choice list of strong, heavy-rooted, sandy-soil, field-grown, summer-blooming Phlox.

FLOR-ACRES, BRIDGMAN, MICH.**PHLOX SUBULATA**

Our field-grown creeping Phlox have proved to be money-makers for thousands of happy customers throughout the nation. 20 varieties available, at \$14.00 per 100, 250 or more of 1 variety at 12c per plant. Write for our new colorful wholesale catalog today.

WALTERS GARDENS

R. R. 2, Zeeland, Mich.

PIERIS**ANDROMEDA**

(Pieris japonica)

One of the most beautiful broad-leaved Evergreens.

Per 100 Per 1000

1 to 2 ins. \$ 6.00 \$ 50.00

2 to 3 ins. 8.00 75.00

4 to 6 ins. 15.00 140.00

6 to 8 ins. 20.00 190.00

300 at 1000 rate. Shipped prepaid to your nursery.

PLANE VIEW NURSERY

1355 W. Main Rd., Rt. 114 Newport, R. I.

PIERIS JAPONICA

Strong liners.

Per 100 Per 1000

4 to 6 ins. \$15.00 \$140.00

6 to 8 ins. 18.00 170.00

"ROEMER" NURSERY

278 Green Rd. North Madison, O.

PRIVET**GENUINE AMUR RIVER NORTH PRIVET**

1-YR., 9 to 18 ins., 2 canes or more, cut back twice, \$4.00 per 100, \$35.00 per 1000. 300 or more at 1000 rate.

2-YR., 9 to 12 ins., heavy branches, mostly

3 and 4 cane, \$7.00 per 100, \$50.00 per 1000;

12 to 15 ins., \$9.00 per 100, \$70.00 per 1000;

15 to 18 ins., \$12.00 per 100, \$100.00 per 1000.

Free packing on 1-yr. for orders of 5000 or more. All others packing at cost. We will not ship 15 to 18 ins., 2-yr. Privet.

PAUL'S NURSERY

R. F. D. 3 Shelby, O.

Thousands of Amur River North Privet.

Per 100 Per 1000

18 to 24 ins. \$2.00 \$25.00

2 to 3 ft. 4.00 30.00

3 to 4 ft. 5.00 40.00

Immediate shipment. Satisfaction guaranteed.

Robinson Nursery Co., Greenville, Ga.

PUSSY WILLOWS**FRENCH PUSSY WILLOWS** 100 1000

18 to 24 ins., 2 canes \$10.00 \$75.00

18 to 24 ins., 3 canes up 22.50 200.00

2 to 3 ft., 2 canes 12.50 100.00

2 to 3 ft., 4 canes 25.00 225.00

KINGWOOD NURSERIES

Mentor, O.

RHODODENDRONS**RHODODENDRONS**

Unnamed hybrids of hardy ponticum, cawbiense parentage. Good caliper and foliage for grafting, growing on or over-the-counter sales. Firm lightweight ball. Bed-grown, XX transplants.

6 to 8 ins. 25.00 200.00

4 to 6 ins. 25c

Minimum order 50 units per lightweight,

frost-proofed crate. State shipping method.

CASH WITH ORDER.**RICHARD RESSEL NURSERIES**

R. 1, Box 125A Mulino, Ore.

For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the April 15 issue to reach us March 24.

Forms for the May 1 issue will close April 14.

AMERICAN NURSERYMAN

343 S. Dearborn St.

CHICAGO 4, ILL.

NAMED HYBRID RHODODENDRONS

Our special offer to budget customers for extra profits. Named Hybrid Rhododendrons in many varieties, 1 1/2-yr.-old, well-branched, pinched twice and grown in lightweight peat moss. Ready to sell in a bright, green colored mache container, 6x7 ins., plus full color pictures attached to all plants. Ask for details as to price varieties, etc.

WEST OREGON NURSERY

3550 N. W. Saltzman Rd. Portland 10, Ore.

Growers and shippers of a complete line of nursery stock.

RHODODENDRON LINERS

Own-root

Well-established transplants

for field bed planting.

May 1 delivery.

In a wide range of varieties.

\$85.00 per 100.

Packing free, cash with order.

Send for new list.

WELLS NURSERY

Box 141 Red Bank, N. J.

RHODODENDRONS

Seeds, seedlings and transplants. Hybrids and species in \$1.00 packets, flats and peat pots. Free expert packing. Ask for list.

JOHN VERMEULEN & SON, INC.

P. O. Box 336A Neshanic Station, N. J.

RHODODENDRONS**HEAVY TRANSPLANTS**

72 varieties.

Price list on request.

HOLLAND NURSERY PRODUCTS

P. O. Box 339 New York 10, N. Y.

HYBRID RHODODENDRONS

Excellent quality.

for landscaping and garden centers.

PARMENTIER'S ROSES

Bayport, L. I., N. Y.

Phone Bayport 8-0811.

RHODODENDRONS

Hardy, hybrid seedlings, liners.

Write for prices and sizes.

THE LEVICK NURSERY CO.

R. F. D. 3 Bridgeton, N. J.

ROSEBUSHES**ROSES**

2-yr., field-grown, state inspected; dug and shipped fresh from our own fields. Tied in bundles of 10 of a kind and variety. Terms: Cash, or 25 per cent cash and balance C.O.D. Packing free.

Priced each. F.O.B. Lindale or Tyler.

100 or more 300 or more

No. 1 grade....35c No. 1 grade....32c

No. 1 1/2 grade....27c No. 1 1/2 grade....25c

No. 2 grade....20c No. 2 grade....18c

Row-run30c

RED PINK

Better Times Pink Radiance

Ami Quinard Mrs. Chas. Bell

Night Editor McFarland

Red Radiance Shell Radiance

Etoile de Hollande Columbia

Rouge Mallerin Briarcliff

Poinsettia The Doctor

Crimson Glory Picture

Red Tallman Pink Dawn

Texas Centennial Pink Holland

Francis Scott Key

TWO-TONE POLYANTHUS and FLORIBUNDAS

Pres. Herbert Hoover Ideal

Talisman Golden Salmon

Betty Uprichard Elise Foulson

Nellie Perkins Floradora

Condesa de Sagato Katharina Zeimet

Countess Vandal Lafayette

WHITE CLIMBERS

Frau Karl Druschki Blaze

White Amer. Beauty Caledonia

K. A. Victoria Red Radiance

Koenigin Luise Pink Radiance

Snowbird Paul's Scarlet

Yellow Mrs. P. S. du Pont

Golden Charm Talisman

Socor Therese White Amer. Beauty

Yellow Tallman Poinsettia

Luxembourg Golden Charm

Golden Sagato Yellow Tallman

Eclipse K. A. Victoria

Golden Dawn Cecile Brunner

Mrs. P. S. du Pont Etoile de Hollande

WELLS BROS. NURSERY

Box 625 Phone 12F4W Lindale, Tex.

ROSEBUSHES

We grow our own Rosebushes and have over 120 varieties (patent and standard, OLD and NEW) to choose from. Our Rosebushes are grown 2 yrs. in the field under the expert supervision of one of the world's leading plant pathologists, using the Manzate-Triton method of disease control. Our Rosebushes are clean, healthy and just bursting with energy. Bare-root BULK Roses are packed FREE in corrugated Poly-lined boxes. Please write, wire or telephone for our new variety and prices lists.

MARTIN'S ROSE NURSERY

P. O. Box 155 Phone UL 9-2191 Arp, Tex.

ROSES

Hybrid Tea, bush; floribundas, grandifloras, climbers. Standard and patented varieties. No. 1. In bulk or packaged. Ask for quotations.

WAYNESBORO NURSERIES

Waynesboro, Va.

ROSEBUSHES—Continued

EVERBLOOMING MINIATURE ROSES
World's largest selection, over 60 varieties. "Money-makers." See them or write for list. We ship branched own-root, 2 1/2-in. pot size.
*Recommended for forcing Per 10 Per 100
*RED, Spring Hill's choice.....\$4.00 \$35.00
*CUPIDO, nearly black-crimson..... 4.50 40.00
*MIDGET (pat. 446), fine rose-red..... 4.50 40.00
*MON PETIT, cherry-red..... 4.50 40.00
*OAKINGTON RUBY, favorited..... 4.50 40.00
*PRINCE CHARMING, crimson..... 5.00 45.00
*PINK, Spring Hill's choice..... 4.00 35.00
*BABY BUNTING, cameo-pink..... 5.00 45.00
*POMPON DE PARIS, pink..... 4.50 40.00
*ROULETTI, pink Swiss Alpine..... 4.50 40.00
*SIMPLE SIMON, newsalmon-pk..... 6.00 55.00
*WHITE, Spring Hill's choice..... 4.00 35.00
*PIXIE (pat. 408), tiny dbl. white..... 4.50 40.00
*WHITE FAIRY, best for forcing..... 4.50 40.00
*PRESUMIDA, orange bicolor..... 4.50 40.00
*BABY GOLD STAR (pat. 407)..... 6.00
*BIGGER FLOWERING MINIATURES
*CAROLYN, sunset orange-red.....\$5.50 \$50.00
*CRI-CRI, imported orange..... 6.00 55.00
*GRANADINA, imported crimson..... 5.50 50.00
*JACKIE, golden yel. to cream..... 4.50 40.00
*JULIETTE, vivid crimson..... 4.50 40.00
*PINK FAIRY, lovely soft pink..... 4.50 40.00
*POLKA DOT, finest pure white..... 4.50 40.00
*SPRING SONG, rich rose-pink..... 5.00 45.00
*THE MARR, terra-cotta red..... 5.00 45.00
*SPRING HILL NURSERIES CO.
300 acres of nursery stock. Visit us! Write!
Dept. AN-F-60 F.O.B. Tipp City, O.

TREE ROSES

Select No. 1 grade standards. Varieties include current A. R. S. winners Duet and Pink Parfait, also Garden Party, Kordeas Perfecta, Lavender Girl, Pink Peace as well as latest introduction Suspense and many others.
Our bush Rose crop is finest in a decade. We offer only quality stock at competitive prices. Write for complete list, then Buy the best—Buy Klyn's.
GERARD K. KLYN, INC.
In the heart of famous Lake County
Mentor, O.

ROSES

Constant research by the Texas Rose Foundation, Inc., plus our 40 years of experience in producing and processing Roses, assures you of the best quality Rose than can be produced.

Write for bare-root and packaged listings of over 140 different patented and non-patented varieties.

L. C. HOUSE & SONS NURSERIES
Dept. 24 Phone LY 2-2671 Tyler, Tex.

FINEST QUALITY ROSES SINCE 1923
Wide selection of non-patented and patent varieties, grown under a consistent and thorough spray program.
Your choice of BARE-ROOT OR PACKAGED ROSES.
Write for list.
VERMAY NURSERY CO.
Dallas Highway Tyler, Tex.
Dept. 11. Phone LY 4-4432

THE SEASON'S BEST DEAL

See for yourself
by
sending for our 1969-71 trade list.
WE STILL OFFER YOU A CHOICE OF
BARE-ROOT AND PREPACKAGED,
PATENT AND STANDARD ROSES.
NEW LONDON ROSES
"The Rose Nursery"
P. O. Box 876 Overton, Tex.

ROSES

Profit-wise nurseries, garden centers and mail-order firms depend on ARP ROSES.
Glittering packs to display. Bare-root for container or landscape. All-America Selections. Catalog and wholesale price list.
ARP NURSERY CO.

Box 3335-A Tyler, Tex.
Rosebushes, 130 varieties. Old and new favorites. Many of the hybrid tea varieties were 4 to 5 ft. tall December 9, 1960, when this ad was sent in. Foliage very clean. These Roses will please your customers. Send for our list before you buy.
P. O. Tate Nursery, R. 3, Tyler, Tex.

TREE ROSES

No. 1, assorted varieties and colors, \$3.50 each, in 10 lots; \$3.25 each, in 100 lots.
WAYNESBORO NURSERIES
Waynesboro, Va.

More customers for you!
Over 9,500 subscribers, all active buyers, see your ad in the American Nurseryman.

ROSE STOCK

THORNY ROSA MULTIFLORA
Straight shanked seedlings graded for understock.

6 to 8 mm.\$35.00 per 1000
4 to 6 mm. 27.50 per 1000
2 to 3 mm. 12.50 per 1000
Small conservation 12.50 per 1000
No packing charge. F.O.B. Milford, Del.
Tops cut back to about 6 ins. Special quotations on larger amounts.
DANEGGER'S HI-WAY NURSERY, INC.
P. O. Box 336 Milford, Del.

MULTIFLORA ROSE

For living fence, conservation and budding understock. Hardy northern grown plants, nematode-free. Our sandy loam produces the finest root system. Our high quality is well known.

Caliper and approximate height Per 1000
2 to 3 mm., 8 to 15 ins.\$12.50
3 to 5 mm., 12 to 18 ins. 17.50
3 to 8 mm., 15 to 24 ins. 22.50
4 to 6 mm., budding understock 27.50

Ask for quantity prices. We cut the tops back to about 10 ins. for shipping, unless you state otherwise. Prices are F.O.B. Glen Head. Packing at cost. For less than 1000, add 30 per cent.

BROOKVILLE NURSERIES

Box 53, Northern Blvd., Glen Head, L.I., N.Y.

Small Ads Do Great Things in the American Nurseryman Classified Section.

SEEDS

CHINESE ELM SEED, 1961 CROP
High quality, dependable source.
We have filled every order we have booked in 15 consecutive years.
Priced per lb., including packing.

1 to 5 lbs.\$1.40
6 to 10 lbs. 1.25
Over 10 lbs. 1.10

Route 3 McCANCE NURSERIES North Platte, Neb.

BLACK HILLS PONDEROSA PINE SEED

\$2.50 per lb.

This is good, clean, 1960 seed.

Sample upon request.

MRS. EARL BAKER

Box 53 Custer, S. D.

SHORT-LEAVED PINE SEED

(Pinus echinata)

Of excellent purity and germination.

Wholesale and retail quantities.

RIGDON'S TREE SEED

1715 W. Arrowhead Dr. Stillwater, Okla.

Junipers, clean seed: Virginiana (Platt), \$3.00 per lb.; scopulorum (Colorado), \$3.00 per lb.

Home Nursery, Cuba, Kan.

Turn your Surplus Stock

into cash

with a Classified Ad in

the American Nurseryman.

SHRUBS AND TREES

QUALITY GROWN STOCK

EVERGREENS, B&B Each, 10 to 24 25 up

JUNIPERUS chinensis glauca hetzl

24 to 30 ins.\$3.25 \$3.00

30 to 36 ins. 3.90 3.65

Juniperus chinensis pfitzeriana

18 to 24 ins. 3.25 3.00

BROAD-LEAVED EVERGREENS, B&B

Abelia grandiflora

24 to 30 ins. 1.80 1.65

30 to 36 ins. 2.00 1.80

Berberis julianae

18 to 24 ins. 2.65 2.40

24 to 30 ins. 3.30 3.00

Berberis mentorensis

30 to 36 ins. 2.30 2.10

Cotoneaster apiculata

18 to 24 ins. 3.00 2.70

24 to 30 ins. 3.95 3.60

Euonymus fortunei vegetus

18 to 24 ins. 2.00 1.80

Euonymus patens

18 to 24 ins. 1.85 1.60

Magnolia grandiflora

24 to 36 ins. 3.30 3.00

Mahonia aquifolium

18 to 24 ins. 2.65 2.40

24 to 30 ins. 3.30 3.00

Nandina domestica

18 to 24 ins. 2.00 1.80

24 to 30 ins. 2.30 2.10

Pyracantha coccinea lalandi

18 to 24 ins. 3.50 3.00

24 to 30 ins. 4.75 4.25

30 to 36 ins. 6.00 5.50

Pyracantha coccinea pauciflora

18 to 24 ins. 3.50 3.00

24 to 30 ins. 4.75 4.25

Viburnum burkwoodi

18 to 24 ins. 3.30 3.00

Viburnum rhytidophyllum

18 to 24 ins. 2.00 1.80

DECIDUOUS TREES, BR (bare-root)

Acer platanoides

8 to 10 ft. 4.90 4.65

Sorbus aucuparia

6 to 8 ft., 1-in. cal. 3.50 3.00

(Extra charge for balling shade trees.)

DECIDUOUS TREES Each, 10 to 24 25 up

Malus (Flowering Crab Apple),

specimens, B&B

Malus arnoldiana

1 1/2-in. cal., 6 to 7 ft.\$6.60 \$6.00

1 1/2-in. cal., 7 to 8 ft. 10.00 9.00

Malus atrosanguinea

1-in. cal., 6 to 7 ft. 6.60 6.00

1 1/2-in. cal., 7 to 8 ft. 10.00 9.00

Malus, Dolgo

1-in. cal., 6 to 7 ft. 6.60 6.00

Malus Dorthea

1-in. cal., 5 to 6 ft. 5.00 4.50

Malus eley

1 1/2-in. cal., 7 to 8 ft. 10.00 9.00

Malus, Hopa

1 1/2-in. cal., 6 to 7 ft. 6.60 6.00

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(Continued from previous column)

1 1/2-in. cal., 7 to 8 ft.10.00 9.00

Malus Katherine

1-in. cal., 6 to 7 ft. 6.60 6.00

1 1/2-in. cal., 7 to 8 ft. 10.00 9.00

Malus Purple Wave

1 1/2-in. cal., 7 to 8 ft.10.00 9.00

Malus zumi calocarpa

1-in. cal., 5 to 6 ft. 5.00 4.50

1 1/2-in. cal., 6 to 7 ft. 6.60 6.00

FLOWERING AND ORNAMENTAL

SHRUBS, BR (bare-root)

Buddleia Princeton, purple

5 to 6 ft.\$3.95 \$3.60

Buddleia Fascination

5 to 6 ft. 3.95 3.60

Buddleia Pink Charming

5 to 6 ft. 3.95 3.60

Caryopteris incana

18 to 24 ins.85 .75

Cotoneaster divaricata

2 to 3 ft. 1.65 1.50

Cydonia rosea plena

2 to 3 ft. 1.15 1.05

Cydonia nivalis

2 to 3 ft. 1.15 1.05

Cydonia Boule de Feu

2 to 3 ft. 1.15 1.05

Deutzia gracilis

12 to 15 ins.85 .75

Deutzia Pride of Rochester

4 to 5 ft. 1.35 1.20

Deutzia acuticarpa

4 to 5 ft. 1.35 1.20

Elaeagnus angustifolia

2 to 3 ft.85 .75

Euonymus alatus compactus

24 to 30 ins. 2.00 1.80

Forsythia intermedia (Spring Glory)

3 to 4 ft. 1.00 .90

Hypericum Hidcote

18 to 24 ins.90 .80

Ilex verticillata

2 to 3 ft. 1.00 .90

Kerria japonica pleniflora

18 to 24 ins. 1.35 1.20

Kolkwitzia amabilis

18 to 24 ins. 1.00 .90

Lagerstroemia (Crape Myrtle)

24 to 30 ins., pink, white

and purple 1.00 .90

Lagerstroemia Wm. Toovey

3 ft., red 2.00 1.80

Lonicera zabeli

30 to 36 ins.85 .75

Philadelphus Enchantment

2 to 3 ft. 1.00 .90

Philadelphus lemoinei

30 to 36 ins. 1.00 .90

Photinia villosa

4 to 5 ft. 1.15 1.05

Prunus glandulosa alba

5 to 6 ft. 1.65 1.50

Spiraea thunbergi

3 to 4 ft. 1.35 1.20

Spiraea vanhouttei

30 to 36 ins.85 .75

Spiraea prunifolia

18 to 24 ins.85 .75

Syringa Buffon

2 to 3 ft. 1.00 .90

Syringa Congo

2 to 3 ft. 1.00 .90

Syringa Ellen Willmott

2 to 3 ft. 1.00 .90

Syringa President Grevy

2 to 3 ft. 1.00 .90

Viburnum carlesii

18 to 24 ins. 1.35 1.20

Viburnum tomentosum

18 to 24 ins. 1.00 .90

Viburnum judiciale

18 to 24 ins. 2.00 1.80

Viburnum trilobum

18 to 24 ins. 1.00 .90

Vitex macrophylla

3 to 4 ft. 1.35 1.20

CLIMBING AND CREEPING VINES

Celastrus scandens

3 to 4 ft. 1.35 1.20

ELKHORN NURSERY

Bryan Station Rd., R. 4 Lexington, Ky.

State highway 956, 3 miles beyond north-

ern Beltline.

EVERGREENS, WHOLESALE

A wide selection of Evergreen seedlings

and transplants, also hardwoods, shade

trees, ornamentals, shrubs and flowering

trees. Our selected seed with good heredity

and scientific culture assures healthy trees

with heavy roots for rapid growth.

Musser offers quality trees at a price made possible through large quantity production.

Our cold storage permits late shipments.

No charge for packing and boxing. Ask for complete catalog and wholesale planting lists.

Our ad, which appears on pages 30 and 31 of this issue, shows a partial list of seedlings and transplants.

MUSSEY FORESTS

ROOTED CUTTINGS, 1-YR. BEDDED			
	Per 100	Per 1000	
Azalea hinoegiri, 4 to 6 ins.	\$12.00		
Azalea Hino-Crimson, 4 to 6 ins.	12.00		
Buxus sempervirens, 4 to 6 ins.	10.00	\$ 90.00	
Chamaecyparis cyano viridis, 4 to 6 ins.	12.00		
Chamaecyparis lutescens, 4 to 6 ins.	10.00	90.00	
Ilex bullata, 4 to 6 ins.	10.00	90.00	
Ilex crenata, 4 to 6 ins.	12.00	90.00	
Juniper, Andorra, 4 to 8 ins.	12.00	100.00	
Juniperus hibernica, 4 to 6 ins.	12.00	100.00	
Juniperus hetzi, 4 to 6 ins.	12.00	100.00	
Juniperus communis aurea, 4 to 6 ins.	12.00		
Leucothoe catesbaei, 4 to 6 ins.	12.00		
Pachysandra, 4 to 6 ins.	4.00	35.00	
Pieris japonica, 4 to 8 ins.	12.00	100.00	
Pieris lalandi, 4 to 8 ins.	10.00	90.00	
Retinispora plumosa aurea, 4 to 8 ins.	10.00	90.00	
Retinispora plumosa, 4 to 8 ins.	10.00	90.00	
Taxus brevifolia, 4 to 6 ins.	10.00	100.00	
Taxus brownii, 4 to 6 ins.	12.00	100.00	
Taxus brevifolia, 4 to 6 ins.	10.00	100.00	
Taxus capitata, tips, 6 to 8 ins.	15.00	125.00	
Taxus cuspidata, 4 to 6 ins.	12.00	100.00	
Taxus cuspidata F&F compacta, 4 to 6 ins.	15.00	125.00	
Taxus densiformis, 4 to 6 ins.	15.00	125.00	
Taxus canadensis stricta, 4 to 6 ins.	12.00	100.00	
Taxus hickii, 4 to 6 ins.	15.00	125.00	
Taxus henryi, 4 to 6 ins.	15.00	125.00	
Taxus hickii, 4 to 6 ins.	12.00	100.00	
Taxus intermedia, 4 to 6 ins.	12.00	100.00	
Taxus Moon's columnaris, 4 to 6 ins.	12.00	100.00	
Taxus canadensis, 4 to 6 ins.	12.00	100.00	
Taxus Vermeulen, 4 to 6 ins.	12.00	100.00	
English Ivy, 4 to 6 ins.	4.00	35.00	
Thuja Biota aurea nana, 4 to 6 ins.	12.00	100.00	
Thuja globosa, 5 to 8 ins.	12.00	100.00	
Thuja pyramidalis, 4 to 6 ins.	10.00	90.00	
Thuja nigra, 5 to 8 ins.	10.00	90.00	
1-YR. SEEDLINGS			
Acer palmatum, 4 to 6 ins.	6.00	50.00	
Black Locust (Robinia pseudoacacia), 12 to 18 ins.	6.00	50.00	
Taxus capitata, 3 ins.	4.00	30.00	
Chinese Chestnut, 12 to 18 ins.	10.00	80.00	
2-YR. SEEDLINGS			
Taxus capitata, 4 to 6 ins.	7.00	60.00	
(in large quantity, \$50.00 per 1000)			
Azalea mollis, 4 to 8 ins.	12.00		
transplanted			
Taxus capitata, 6 to 10 ins.	10.00	90.00	
(3-yr. seedlings)			
(in large quantity, \$75.00 per 1000)			
3-YR. SEEDLINGS			
Balsam Fir, 6 to 8 ins.	5.00	40.00	
Picea (White Spruce), 4 to 6 ins.	5.00	40.00	
Pinus mughus Tyroleon, 3 to 5 ins.	6.00	50.00	
Tsuga diversifolia, 4 to 6 ins.	7.00	60.00	
Concolor Fir, 4 to 6 ins.	8.00	70.00	
Picea excelsa, 4 to 6 ins.	5.00	40.00	
Douglas Fir, 6 to 8 ins.	6.00	50.00	
Thuja occidentalis, 6 to 8 ins.	5.00	40.00	
ROOTED CUTTINGS, 2-YR. BEDDED			
	Per 100	Per 1000	
Juniperus hetzi, 8 to 12 ins.	\$20.00	\$190.00	
Retinispora pisifera aurea, 8 to 12 ins.	20.00		
Retinispora plumosa aurea, 8 to 12 ins.	20.00	190.00	
Retinispora plumosa, 8 to 12 ins.	20.00	190.00	
Pieris japonica, 6 to 10 ins.	20.00	190.00	
Taxus cuspidata, 6 to 8 ins.	20.00	150.00	
Taxus cuspidata F&F compacta, 6 to 8 ins.	25.00	200.00	
Taxus intermedia, 6 to 8 ins.	20.00	150.00	
Taxus brownii, 6 to 8 ins.	20.00	150.00	
Taxus hickii, 6 to 8 ins.	20.00	150.00	
Taxus brevifolia, 6 to 8 ins.	20.00	150.00	
Taxus repandens, 6 to 8 ins.	20.00	150.00	
Ilex bullata, 6 to 8 ins.	15.00	150.00	
4-YR. TRANSPLANTS			
Taxus capitata, 8 to 12 ins.	20.00	150.00	
Picea engelmannii, 6 to 8 ins.	8.00	70.00	
Picea excelsa, 6 to 12 ins.	12.00	100.00	
Picea pungens glauca, 6 to 10 ins.	12.00	100.00	
Pinus mughus Tyroleon, 4 to 6 ins.	20.00		
Thuja occidentalis, 8 to 12 ins.	12.00		
Tsuga canadensis, 5 to 8 ins.	10.00	90.00	
Tsuga canadensis, 8 to 10 ins.	15.00	140.00	
Tsuga canadensis, 10 to 12 ins.	20.00	190.00	
5-YR. TRANSPLANTS			
Douglas Fir, 12 to 18 ins.	80.00		
Concolor Fir, 12 to 18 ins.	130.00		
Tsuga canadensis, 12 to 15 ins.	30.00	250.00	
Picea pungens glauca, 12 to 18 ins.	20.00	140.00	
Picea (White Spruce), 12 to 18 ins.	10.00	80.00	
Picea excelsa, 12 to 18 ins.	10.00	80.00	
POT-GROWN GRAFTS			
	Per 100		
Acer palmatum atropurpureum	\$5.00		
Fagus sylvatica riversi	60.00		
Magnolia stellata	60.00		
Magnolia Water Lily	60.00		
Picea moerhousii	100.00		
Picea pungens glauca hoopii	125.00		
Picea kosteriana	100.00		
Pinus cembra	60.00		
VAN DINE NURSERY			
Berdan Ave.	Wayne, N. J.		

MAIL ORDER ITEMS			
	EACH	100	1000
Acer palmatum atropurpureum (dark Red Japanese Maple), selected types, strong 3-yr. grafts, 18 to 24 ins.	\$2.00		
Buxus sempervirens, true, 2-yr. T (suitable for edging), 8 to 10 ins.	.20	\$0.17 1/2	
Cornus elegantissima, 2-yr., 2 to 2 1/2 ft.	.25		
Cornus florida rubra (Pink-flowering Dogwood), 18 to 24 ins., 2-yr. grafts	.90	.75	
Euonymus alatus compactus (dwarf Winged Euonymus), 2-yr., T, 10 to 15 ins.	.30	.25	
Euonymus alatus compactus (dwarf Winged Euonymus), 3-yr., T, 12 to 18 ins.	.45	.40	
Fagus sylvatica riversi, 2-yr. grafts, 18 to 24 ins.	1.75		
Ilex hetzi, 2-yr., T, 8 to 12 ins.	.30	.25	
Ilex rotundifolia, 2-yr., T, 8 to 12 ins.	.30	.25	
Magnolia soulangeana, 2-yr., T, cuttings, 18 to 24 ins.	.75		
Picea pungens glauca (Colorado Blue Spruce), 4-yr., T, 6 to 9 ins.	.25	.20	
Rhododendron carolinianum, 3-yr. TT, 6 to 10 ins.	.60		
Rhus cotinus Royal Purple (new dark purple-leaved Smoke-bush), 1-yr. grafts, bedded	.75	.60	
Taxus cuspidata, 4-yr. TT, FR, 9 to 12 ins.	.60	.50	
Taxus densiformis, 4-yr. TT, FR, 9 to 12 ins.	.75	.60	
Thuja nigra, 2-yr. T, 12 to 15 ins.	.40	.35	
Thuja orientalis aurea nana, strong 2-yr. T, cuttings, 10 to 12 ins.	.50	.45	
Viburnum carlesii, 3-yr. seedlings, 12 to 18 ins.	.40	.35	
Viburnum wrightii, 2-yr., S, 15 to 18 ins.	.15	.12	
WHERE QUALITY EXCELS			
NO CHARGE FOR PACKING			
C. HOOGEENDORP, NURSERYMAN			
408 Turner Rd. Newport, R. I.			
EVERGREEN SEEDLINGS			
	100	1000	
SCOTCH PINE (French or Spanish strain)			
2-yr. seedlings (2-0), 4 to 8 ins.	\$ 5	\$ 25	
3-yr. seedlings (3-0), 8 to 16 ins.	8	40	
WHITE PINE			
3-yr. seedlings (3-0), 5 to 10 ins.	8	40	
4-yr. transplants, grafting size	15	75	
MUGHO PINE			
4-yr. seedlings (4-0), 4 to 8 ins.	10	50	
4-yr. transplants (3-1), 3 to 5 ins.	15	75	
JAPANESE BLACK PINE			
2-yr. seedlings (2-0), 4 to 8 ins.	9	45	
3-yr. seedlings (3-0), 8 to 14 ins.	12	60	
WHITE SPRUCE			
3-yr. seedlings (3-0), 8 to 14 ins.	8	40	
5-yr. transplants, grafting size	20	100	
NORWAY SPRUCE			
3-yr. seedlings (3-0), 10 to 18 ins.	9	45	
5-yr. transplants, grafting size	25	125	
COLORADO BLUE SPRUCE			
3-yr. seedlings (3-0), 6 to 12 ins.	9	45	
5-yr. transplants (3-2), 8 to 14 ins.	35	175	
CANADIAN HEMLOCK			
3-yr. seedlings (3-0), 8 to 12 ins.	16	80	
CONCOLOR FIR			
3-yr. seedlings (3-0), 6 to 12 ins.	8	40	
4-yr. seedlings (4-0), 8 to 14 ins.	11	55	
4-yr. transplants (3-1), 4 to 8 ins.	16	80	
5-yr. transplants (3-2), 8 to 12 ins.	25	125	
FRASER FIR			
2-yr. seedlings (2-0), 2 to 4 ins.	8	40	
3-yr. seedlings (3-0), 5 to 10 ins.	12	60	
BALSAM FIR			
3-yr. seedlings (3-0), 4 to 8 ins.	8	40	
4-yr. transplants (3-1), 4 to 8 ins.	15	75	
BARBERRIES, GREEN			
2-yr. seedlings (2-0), 6 to 12 ins.	8	40	
2-yr. seedlings (2-0), 12 to 18 ins.	10	50	
WHITE FLOWERING DOGWOOD			
Seedlings, 4 to 8 ins.	7	35	
Seedlings, 12 to 24 ins.	12	60	
MUSSER FORESTS, INC.			
	Box 16NC	Indiana, Pa.	
LANDSCAPE SIZE MATERIAL			
Taxus media hatfieldi, 18 to 24 ins.	\$2.75		
24 to 30 ins.	3.25		
Taxus cuspidata, 15 to 18 ins.	2.50		
18 to 24 ins.	3.00		
Taxus intermedia, 18 to 24 ins.	2.75		
24 to 30 ins.	3.50		
Taxus baccata repandens, 15 to 18 ins.	3.75		
Taxus hickii, 18 to 24 ins.	2.75		
24 to 30 ins.	3.25		
Ilex crenata, 18 to 24 ins.	2.25		
Pieris japonica, 15 to 18 ins.	2.25		
18 to 24 ins.	3.25		
Ilex opaca (female), 3 1/2 to 4 ft.	5.25		
4 to 4 1/2 ft.	6.25		
Berberis julianae, 18 to 24 ins.	2.50		
24 to 30 ins.	3.25		
TURNER'S LINCOLN WAY NURSERY			
	R. D. 2 West, Box 12	Coatesville, Pa.	
1 1/2 miles west of Coatesville on Route 30			
FOTHERGILL GARDEN			
See American Nurseryman, January 15, 1959.			
2-yr. bedded plants	\$50.00	per 100	
RHUS COTINUS ROYAL PURPLE			
1-yr. bedded cuttings	50.00	per 100	
MAHLSTEDE BROS.			
5323-51 Wilson Mills Rd., Cleveland 24, O.			

1961 SPRING WHOLESALE LIST			
	Per 100	Per 1000	
3-yr. liners, 2 TT (from cuttings)			
Hicks Taxus, 8 to 10 ins.	\$30.00	\$250.00	
Cusp. Taxus, 8 to 10 ins.	28.00	230.00	
Ilex rotundifolia, 8 to 10 ins.	22.00	200.00	
Juniperus hetzi glauca, 8 to 10 ins.	22.00	200.00	
Juniperus hetzi glauca, 10 to 12 ins.	25.00	220.00	
Juniperus hetzi glauca, 12 to 14 ins.	28.00	230.00	
Amer. Arbor. (dark green), 10 to 12 ins.	25.00	220.00	
Heavy liners, well-sheared, 5 to 6-yr.-old, 3 to 4 TT. Ideal for containers. Nursery row dug. Bare-root.	Per 100		
Amer. Arborvitae, 20 to 24 ins.	\$60.00		
Juniperus hetzi glauca, 18 to 20 ins.	60.00		
Ilex rotundifolia, 10 to 12 ins.	50.00		
Andorra Juniper, 10 to 12 ins.	55.00		
Andorra Juniper, 12 to 14 ins.	60.00		
Pfitzer Juniper, 16 to 18 ins.	60.00		
Forsythia Spring Glory, 24 to 30 ins.	60.00		
250 plants at 1000 rate. Stock offered subject to prior sale. Free packing. F.O.B. Willoughby, O. Terms: 2 per cent discount for cash with order, or by express C.O.D. shipment. Open Sundays. Larger stock balled and burlapped to be picked up at nursery.			
LITTLE ACRES NURSERY			
	R. D. 5, Chardon Rd.	Willoughby, O.	
SHRUBS AND TREES			
	EACH	100	1000
Euonymus alatus			
2 to 3 ft.	\$0.85	\$0.80	
3 to 3 1/2 ft.	1.15	1.00	
Euonymus alatus compactus			
24 to 30 ins.	1.15	1.00	
2 1/2 to 3 ft.	1.50	1.25	
Prunus cistena			
2 to 3 ft.	.70	.65	
3 to 3 1/2 ft.	.85	.80	
LINING-OUT STOCK			
Arborvitae, Woodward globe			
9 to 12 ins.	\$0.50	\$0.40	
12 to 15 ins.	.60	.50	
Arborvitae, pyramidal			
15 to 18 ins.	.50	.40	
18 to 24 ins.	.60	.50	
Juniperus hetzi			
12 to 15 ins.	.40	.35	
18 to 24 ins.	.50	.45	
Juniperus pfitzeriana			
9 to 12 ins.	.35	.30	
18 to 24 ins.	.50	.45	
Taxus cuspidata			
9 to 12 ins.	.45	.40	
Taxus hickii			
6 to 9 ins.	.50	.45	
Euonymus alatus compactus			
2-yr., T, 9 to 12 ins.	.25	.20	
FANCHER'S NURSERY, Sturtevant, Wis.			
QUALITY NURSERY-GROWN STOCK			
	Transplants		
Sweet Gum, Liquidambar styraciflua, 24 to 36 ins., \$3.00 per 100, \$75.00 per 1000.			
SEEDLINGS			
Pin Oak (Quercus palustris), 8 to 16 ins.			
Red Oak (Quercus rubra), 12 to 16 ins.			
Tulip Poplar (Liriodendron tulipifera), 8 to 16 ins.			
Sugar Maple (Acer saccharum), 8 to 16 ins.			
Norway Maple (Acer platanoides), 8 to 16 ins.			
Silver Maple (Acer saccharinum), 8 to 16 ins.			
Flowering Dogwood (Cornus florida), 8 to 16 ins.			
Washington Hawthorne (Crataegus cordata), 8 to 16 ins.			
\$4.00 per 100, \$35.00 per 1000.			
Tied in bundles of 25, 300 or more at 1000 rate. F.O.B. Hamlet, Ind. All plants nursery-grown in our own nursery.			
STANLEY J. HENSLER			
	Forester-Nurseryman	Hamlet, Ind.	
SPECIAL PRICES			

SHRUBS AND TREES—Continued

FINISHED STOCK (RELOCATING)	
(First 3 items are <i>Ilex crenata</i>)	
40 Bennett Willowleaf, 2-3 ft. B&B.	\$2.00
40 seedling var., T.T. 1-gal., 18 ins.	.90
50 seedling var., T.T. 1-gal., 15 ins.	.75
20 Metasequoia, 2-gal., 3 ft.	2.25
30 Lig. luc. Pillar, 1-gal., 15 to 18 ins.	.65
150 Taxus cusp., 1-gal., 15 to 24 ins.	.90
10 <i>Ilex vomitoria</i> , B&B, 5 to 7 ft.	5.25
10 Wistaria vine, B&B, 2½ to 3 ft.	1.80
30 dwarf Alberta Spruce, 1-gal., 15 ins.	3.50

(Spruce and *Ilex* are very nice.)
Bargains in assorted small lots of shrubs and Evergreens. You dig.

COMSTOCK NURSERIES
R. D. 3 Phone AC 8-2169 Cambridge, Md.

HEAVY LANDSCAPE SHRUBS Each	
500 Viburnum dentatum, 3 to 4	\$0.60
600 Viburnum dentatum, 4 to 5	.70
100 Viburnum dentatum, 5 to 6	.90
130 Viburnum lantana, 3 to 4	.65
125 Viburnum lantana, 4 to 5	.70
300 Viburnum opulus, 3 to 4	.60
300 Viburnum opulus, 4 to 5	.70
100 Viburnum opulus, 5 to 6	.90
6000 Privet (Box) lodenise, 12 to 15 ins.	.13
6000 Privet (Box) lodenise, 15 to 18 ins.	.16
600 Willow, Arctic, 15 to 18 ins.	.20
400 Willow, Arctic, 18 to 24 ins.	.25

Not less than 10 each variety.

MOSES' NURSERIES, LIMA, N. Y.

SURPLUS TREES	
Honey Locust, thornless	B&B root
2 to 2½-in. cal.	\$4.50 \$3.00
Honey Locust, thornless	
2½ to 3-in. cal.	6.50 4.00
Sweet Gum, 1½ to 2-in. cal.	4.00 2.50
Sweet Gum, 2 to 2½-in. cal.	5.00 3.50
Norway Maple, 1 to 1½-in. cal.	3.00 2.00
Silver Maple, 1 to 1½-in. cal.	1.50
Sycamore, 1½ to 2-in. cal.	3.50 2.00
Sycamore, 2 to 2½-in. cal.	4.50 3.00
Pink Dogwood, 4 to 5 ft.	2.00

LAWRENCE SANDERS NURSERY
721 Kentucky Ave. Paducah, Ky.

LONBARDY POPLAR	
Each, 25 100	
2-yr., 2 to 3 ft.	\$0.15 \$0.10
We have a large quantity of above.	
3 to 4 ft.	.25 .15
4 to 5 ft.	.50 .25
5 to 6 ft.	.60 .40
These have been cut back twice.	
3-yr., heavy branched	
6 to 8 ft.	.75 .60
8 to 10 ft.	1.10 1.00
10 to 12 ft.	1.50 1.00

Packing at cost.
PAUL'S NURSERY
R. F. D. 3 Shelby, O.

ORNAMENTAL SHRUBS	
Crab Apples, 40 varieties; 1-yr. trees and limited number 3-yr. transplants. Descriptive booklet available.	
Thundercloud Plum, 1-yr. and 3 yrs., 6 to 8 ft.	
Winter King Hawthorn, 1-yr. whips and 3-yr. transplants, 6 to 8 ft.	
Taxus and large plants of Magnolia soulangiana.	

SIMPSON ORCHARD CO., INC.
1504 Wheatland Rd. Vincennes, Ind.
Phone TU 2-2441.

LONDON PLANE TREE	
Cutting-grown, straight. Sensibly priced.	
For B&B, 1-9 10-49 50 up add	
1 to 1½ ins.	\$7.00 \$5.90 \$4.75 \$3.00
1½ to 2 ins.	10.00 9.00 8.50 4.50
2 to 2½ ins.	14.00 13.00 10.50 8.50
2½ to 3 ins.	17.00 16.00 13.00 10.00
3 to 3½ ins.	20.00 18.00 17.00 12.50
3½ to 4 ins.	24.00 22.00 18.00

LEMEN'S NURSERY
East Moriches, L. I., N. Y.
Phone AT 1-9990

TREES TREES	
Maples, Pin, Red and Live Oaks, Willows, Birches, Crab Apples. Order your large sizes of B&B trees at once while we have time to dig them and before Crabs and Willows commence to grow. Burlap is treated and balls are protected in sawdust until you want delivery.	

Send for wholesale list showing varieties and reasonable prices for quality trees, shrubs, Evergreens, Azaleas.

THE TANKARD NURSERIES
Exmore, Virginia

HEAVY LINERS FROM FIELD BEDS	
Per 100	
Taxus hicksi, 2-yr., 8 to 12 ins., T.	\$30.00
Taxus cuspidata, 2-yr., 8 to 12 ins., T.	30.00
Taxus capitata, 2-yr., 8 to 12 ins., T.	32.00
Taxus browni, 2-yr., 8 to 12 ins., T.	35.00
Taxus Vermeulen, 2-yr., 8 to 12 ins., T.	30.00
Taxus andersoni, 2-yr., 8 to 12 ins., T.	32.00
The above varieties in 3-yr., T.T.	45.00
The above varieties in 4-yr., T.T.	50.00
The above varieties in 5-yr., T.T.	55.00

STROHL'S NURSERY
5204 St. Joe Rd. Fort Wayne, Ind.

Lagerstroemia indica (Crape Myrtle), thousands of attractive plants, hardiest varieties, choice of red, delicate pink; 18 to 24 ins., \$25.00 per 100; 2 to 3 ft., \$30.00 per 100; 3 to 4 ft., \$50.00 per 100. Sample doz., \$10.00. Robinson Nursery Co., Greenville, Ga.

CHINESE ELM	
6 to 12 ins., seedlings	\$1.25 \$1.00
12 to 18 ins., seedlings	2.00 15.00
18 to 24 ins., seedlings	2.75 22.50
2 to 3 ft., seedlings	4.00 35.00

RUSKIAN OLIVE
12 to 18 ins., seedlings 3.50 25.00
18 to 24 ins., seedlings 5.00 37.50
2 to 3 ft., seedlings 6.50 55.00

Free packing. Samples if requested.

ROGERS & KOPPENHEFFER NURSERY
2029 Judson Dr. Manhattan, Kan.

COLLECTED, INSPECTED HARD MAPLE	
Each	Per 1000
2 to 4 ft.	\$0.20 \$175.00
4 to 6 ft.	.30 275.00
6 to 8 ft.	.50 450.00
8 to 10 ft.	1.00 850.00
10 to 12 ft.	1.50 1250.00

AMERICAN IRONWOOD (*Ostrya virginiana*)
6 to 8 ft. 1.50 each
8 to 10 ft. 1.50 each

THE SCOTCH GROVE NURSERY
Scotch Grove, Ia.

DWARF MAHONIA

Jack Mayhan is authority on mountain-grown Mahonia. This is a new variety selection, hardy as Oak. Very compact, dwarf. Ready now. 100,000 plants. All plants U. S. D. A. inspected. Cash in on my many years' experience.

2-yr., T. \$20.00 per 100, \$150.00 per 1000.

5 to 6-yr. finished plants, \$3.00 each.

Cash with order. Full return 5-day privilege.

MAYHAN NURSERY, VERADALE, WASH.

LITTLE LEAF EUROPEAN LINDEN
FINE QUALITY. GOOD HEADS.
FIBROUS ROOTS

6 to 8 ft., 1 to 1½-in.	10-49 \$0-250
8 to 10 ft., 1½ to 2-in.	\$4.50 \$3.60
8 to 10 ft., 1½ to 2-in.	7.00 5.50
9 to 11 ft., 1½ to 2-in.	9.00 7.25
10 to 12 ft., 1½ to 2-in.	12.00 10.00
11 to 13 ft., 2 to 2½-in.	15.00 12.00

PRINCETON NURSERIES
Princeton, N. J.

MAPLES, BIRCHES, COLLECTED N. H.

Sugar Maples, 2½ to 3½ ft. \$15.00 per 100

White Birch, 3½ to 4½ ft. 20.00 per 100

White Pine, 2 to 3 ft. 2.25 each

Canadian Hemlock, 2 to 3 ft. 2.25 each

NURSERY JUNIPER, Hetz,

Pitzer, Andorra, any,

15 to 18 ins. 2.00 each

Juniper, 18 to 24 ins. 2.50 each

MAPLEWOOD NURSERY, FRANKLIN, N.H.

RHODODENDRONS

Hybrids in varieties. True Red Jap. Maples, also the new Bloodgood variety. Own-root grown. Liners and finished plants. Our complete list of many items of choice nursery stock is now ready. See our beautifully grown Taxus, *Ilex*, Azaleas, etc.

GERARD K. KLYN, INC.

Mentor, O.

Wholesale Nurserymen

COLLECTED STOCK

CANADIAN HEMLOCK

SUGAR MAPLES

BIRCH CLUMPS, FERNS

AND WILDFLOWERS

Send for wholesale list.

LAMPREY RIVER NURSERY

Radford H. Palmer

R. F. D. 1 Durham, N. H.

TRANSPLANTED SHADE TREES Each

Green Ash, 1½ to 2-in. cal. \$3.00

Silver Maple, 1½ to 2-in. cal. 3.00

Chinese Elm, 1½ to 2-in. cal. 3.00

Thornless Honey Locust, 1½ to 2-in. cal. 3.00

Sycamore, 1½ to 2-in. cal. 3.00

KINAST NURSERY

On Route 173, 2 miles west of Route 45,

P. O. Box 286 Antioch, Ill.

Phone Antioch 2222

FINISHED STOCK ONLY

European Mt. Ash London Plane

Clump Birch Lombardy Poplar

Norway Maple Tulip Trees

Silver Maple Weeping Willow

Taxus, flowering shrubs and Malus.

Send for prices.

YORK NURSERIES

695 Elm St. Painesville, O.

PLATANUS ACERIFOLIA

(London Plane, best strain.)

2 to 3 ft. \$0.25 \$0.18

3 to 4 ft. .35 .25

4 to 5 ft. .45 .35

5 to 6 ft. transplants. 1.50 1.25

BULK'S NURSERIES, INC.

610 W. Montauk Hwy., Babylon, L. I., N. Y.

LAND SOLD

Plants must go. Evergreens, Boxwood and shrubs. Also large southern Magnolias. Send want list.

BOXWOOD NURSERIES

Mocksville, N. C.

WILLOWS

Salix tortuosa (Corkscrew) Each

200 4 to 5 \$1.25

200 5 to 6 1.75

100 6 to 8 2.50

MOSES' NURSERIES, LIMA, N. Y.

LARGE SHADE TREES
Pin Oak, Red Oak, Sweet Gum,
4 to 10-in. caliper.
Many other landscape items
in specimen material. All nursery grown.
65 acres. Established 40 years.
GEO. F. BLOOMER NURSERIES
Route 69 Flemington, N. J.

WINTER JASMINE
(*Jasminum nudiflorum*)
2-yr., \$4.00 per 10, \$35.00 per 100.
3-yr., \$5.00 per 10, \$45.00 per 100.
WAYNESBORO NURSERIES
Waynesboro, Va.

STRAWBERRIES

PACKAGED STRAWBERRY PLANTS

For your retail trade, packed in polyethylene. 25 plants wrapped in attractive colored picture package, each with complete growing guide.

Blakemore, Dunlap, Robinson, Tenn.

Beauty, Aroma, Armore, 20 package crate, \$7.00; 40 package crate, \$14.00.

Pocahontas, Surcrop, Dixieland, 20 package crate, \$7.50; 40 package crate, \$15.00.

Ozark Beauty and Ogallala, the very best everbearing, 20 package crate, \$10.00; 40 package crate, \$20.00.

Bulk plants in bundles of 25, packed 1000 plants to crate. Blakemore, Dunlap, Robinson, Tenn. Beauty, Aroma, \$8.00 per 1000.

Surcrop, Dixieland, Armore, \$9.00 per 1000. Pocahontas, \$10.00 per 1000.

All plants certified and virus-free.

Prompt shipment. Live arrival guaranteed

SHANK FARMS, GRANBY, MO.

STRAWBERRY PLANTS

Certified and virus-free; choice, well-rooted. Blakemore, Robinson, Dunlap, \$8.00 per 1000.

Armore, \$9.00 per 1000. Pocahontas, \$10.00. Everbearing Ozark Beauty and Ogallala, \$18.00 per 1000. Well-packed in bundles of 25. Prompt shipment. Live arrival guaranteed.

HAMES STRAWBERRY NURSERY

Goodman, Mo.

STRAWBERRY PLANTS

26 varieties Strawberry plants, including New Ogallala, Cyclone, Trumpeter and Earlmore. Write for list.

RIDER NURSERY, FARMINGTON, IA.

TAXUS

TAXUS LINERS

3-yr., T. 20c each, per 1000.

2700 capitata seedlings

2000 hicksi

300 densiformis

500 cuspidata

4-yr., T. 30c each, per 1000.

350 browni

5000 hicksi

2000 cuspidata

500 capitata seedlings

5-yr., T. 40c each, per 1000.

1100 Vermeulen

300 browni

500 cuspidata

300 or more total order get these prices.

S. D. HOCKING & SONS

Durham Road, Route 77

Gulford, Conn.

TAXUS CAPITATA

Upright Japanese Yew,

grown from Japanese imported seed.

2-yr. seedlings. Seed sown lightly.

75,000 2-yr. seedlings, 1000 10,000

4 to 6 ins. \$75.00 \$600.00

65,000 2-yr. seedlings,

6 to 8 ins. 90.00 750.00

SHADE'S NURSERY

624 Colonial Club Dr. Harrisburg, Pa.

Phone Harrisburg KI 5-5417

5 miles east of Harrisburg on U. S. Route

22. Turn north at Inn. 22, nursery 1 mile

north of U. S. Route 22.

TAXUS

Japanese Yew (*capitata*), from seed.

(3-2-3), 10 to 18 ins., T. \$1.00 each.

Twice sheared, good color, massive roots.

(3-0), 3-yr., S. 4 to 8 ins.

\$85.00 per 1000, \$10.00 per 100.

(2-0), 2-yr., S. bed-run, 2 to 6 ins.

\$60.00 per 1000, \$7.50 per 100.

Also Pine, Spruce, Fir.

DENTON NURSERY

Conneaut, O.

SHEARED TAXUS

100 1000

Taxus hicksi, 18 to 24 ins. \$3.25 \$3.00

Taxus cuspidata, 15 to 18 ins. 3.00 2.50

Taxus cuspidata, 18 to 24 ins. 3.50 3.00

Taxus cuspidata, 24 to 30 ins. 4.50

Taxus thayerae, 15 to 18 ins. 3.00 2.50

Taxus thayerae, 18 to 24 ins. 3.50 3.00

TAXUS

	EACH	100	1000
Brevifolia, 2-yr., T	\$0.40	\$0.35
Brown, 2-yr., T40	.35
Cuspidata, 2-yr., T40	.35
4-yr., TT, FR.60	.50
Densiformis, 2-yr., T45	.40
4-yr., TT, FR.75	.60
Hatfield, 2-yr.40	.35

WHERE QUALITY EXCELS. No charge for packing.

C. HOOGEENDOORN
408 Turner Rd. Newport, R. I.

SHEARED.

FINISHED LANDSCAPE PLANTS

	EACH	100	1000
TAXUS CUSPIDATA	\$3.00	\$3.75
1500 15 to 18 ins.	3.00	3.75
1800 18 to 24 ins.	3.75	4.85
350 24 to 30 ins.	4.85	

Send for price list, Taxus, Pieris, Ilex, Rhododendron hybs., etc.

THORNTON NURSERIES

Conneaut Lake, Pa.

TAXUS CAPITATA

18 to 24 ins., \$4.00; 24 to 30 ins., \$4.50;	
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30 to 36 ins., \$5.00; 36 to 42 ins., \$6.00.	
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TAXUS CUSPIDATA

18 to 24 ins., \$3.25; 24 to 30 ins., \$4.00;	
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30 to 36 ins., \$4.50.	
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These are of heavily sheared and root-pruned stock. Prices net. B&B at nursery.

STAGE NURSERIES

1 West 4th Ave. Clearfield, Pa.

SHEARED, FINISHED LANDSCAPE PLANTS

	EACH	100	1000
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TAXUS CUSPIDATA	\$5.00	\$4.00
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2 to 2 1/2 ft.	7.50	6.00
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TAXUS INTERMEDIA	7.50	6.00
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2 1/2 to 3 ft.	7.50	6.00
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PALOMBO NURSERIES, INC.

131 Freeport Rd. Pittsburgh 15, Pa.

TAXUS LINERS

2-yr. in open beds, banded.

Hatfield, heavy liners26c	each
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Hicks, heavy liners26c	each
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Cuspidata, heavy liners26c	each
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Anderson, heavy liners26c	each
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HARTMAN NURSERY

22 Godwin Lane St. Louis 24, Mo.

TAXUS

	EACH	100	1000
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Taxus media AMHERST	\$0.30	\$0.27 1/2
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Taxus media wardi35	.32 1/2
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MITSKA NURSERY

Amherst, O.

TAXUS

Hicks, cuspidata, intermedia.

15 to 18 ins., sheared	\$1.75	
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18 to 24 ins., sheared	2.50	
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24 to 30 ins., sheared	3.50	
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PEENEY'S NURSERY

Bustleton Pike Feasterville, Pa.
2 miles from Phila. exit of turnpike

TAXUS

	100	1000
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Densiformis, 2-yr., bedded	\$20.00	\$175.00
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Brown, 2-yr., bedded	17.50	150.00
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MAHLSTEDE BROS.

5323-51 Wilson Mills Rd., Cleveland 24, O.

VEGETABLE PLANTS

FOR GARDEN AND NURSERY SHOPS

WRITE FOR COMPLETE WHOLESALE

LIST OF POPULAR VARIETIES

Cabbage, 20 popular varieties	2000,	\$5.40
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RED Hollander, Wisc. Y. R.	1000,	3.65
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Cabbage	1000,	3.65
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Onions, 4 popular varieties	6000,	5.40
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HYBRID Onions, Yellow Spanish	6000,	6.95
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State inspected. Shipped by express now.

All guaranteed, fresh pulled, true to name.

Tomato, Pepper, Yam plants ready in April.

FARRIER PLANT FARMS

Box AN787 Omaha, Texas

VIBURNUMS

VIBURNUM CARLESI

Fragrant Mayflower Viburnum.

2-yr. seedlings, 4 to 6 ins., \$15.00 per 100,	
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\$125.00 per 1000; 6 to 8 ins., \$20.00 per 100,	
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\$175.00 per 1000; 3-yr. seedlings, 12 to 18	
--	--

ins., \$40.00 per 100, \$350.00 per 1000.	
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WHERE QUALITY EXCELS. No charge for packing.

C. HOOGEENDOORN
408 Turner Rd. Newport, R. I.

VIBURNUM CARLESI

18 to 24 ins.	\$14.00	\$120.00
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2 to 3 ft.	20.00	180.00
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Ask for prices on B&B specimens.

WAYNESBORO NURSERIES

Waynesboro, Va.

VIBURNUM CARLESI COMPACTA (NEW)

This is a compact form of Viburnum carlesii with dark green leaves and buds up very readily.

Strong 2-yr. grafts, \$125.00 per 100, \$1000.00 per 1000.

WHERE QUALITY EXCELS. No charge for packing.

C. HOOGEENDOORN
408 Turner Rd. Newport, R. I.

VIBURNUM RHYTIDOPHYLLUM

(Leatherleaf)

3 1/2 to 4 ft.	\$3.50	each
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4 to 5 ft.	4.00	each
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5 to 6 ft.	5.00	each
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Other items in trade list. Ask for it.

LINDLEY NURSERIES, INC.
Box H Greensboro, N. C.

VINES

VINES

	Each
--	------

Boston Ivy, 12 to 18 ins.	\$0.30
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18 to 24 ins.45
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2 to 3 ft.50
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Please write for quotations on 100 and 1000 lots.

DUGAN NURSERIES, INC.
Center St. Perry, O.

VIOLAS

VIOLA CORNUTA

(Perennial Tufted Pansies)

Red, blue, apricot, deep purple, yellow, white, mixed.

\$2.00 per 10, \$15.00 per 100.

KINGWOOD NURSERIES
Mentor, O.

VIOLAS

VIOLAS

VIOLAS

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WANTED

WANTED

DWARF APPLES, Jonathan, Red Delicious, Yellow Delicious, Yellow Transparent, Red McIntosh.

DWARF PEARS, Bartlett.

DWARF PEACHES, Sunhaven, Redhaven, Fairhaven, Richhaven, Elberta.

State understock used.

GROOTENDORST NURSERIES

Lakeside, Mich.

WANTED

WANTED

Interested in substantial quantities of quality stock for wholesaling to garden centers, chain stores, landscapers and builders in New England. Write us today! Cash paid.

ARTHUR GAKLIS

"GOLD STAR" WHOLE NURSERY SALES

South Ave. (R. 30), Weston 93, Mass.

WANTED

WANTED

100 grafted plants.

Flowering Dogwood, Cherokee Chief only.

TRAAS' NURSERY

R. R. 7 Langley, B. C., Canada

WANTED

WANTED

Austrian Pine, 14 to 24 ft.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

Surplus Stock

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

SUPPLIES

BURLAP

HOLLAND BURLAP squares, for all needs.

PLAIN, ROT-NOT GREEN plastic preserved.

HALF MOON CO., Box 27A, Plainfield, N. J.

CANE STAKES

DELIVERED PRICES

EXTRA HEAVY.

NATURAL BAMBOO STAKES

DIRECT FROM THE PRODUCER

Now in our 20th yr. supplying millions of

stakes to leading growers throughout the

United States and Canada.

Specifications represent approximate average

diameter at bottom end.

DELIVERED PRICES PER 100 STAKES

(See below)

Length	% to 1/4 in.	% to 1/2 in.	% to 3/4 in.	% to 1 in.	% to 1 1/4 in.
--------	--------------	--------------	--------------	------------	----------------

4 ft.	\$3.90	\$5.00	\$5.50	\$6.00
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5 ft.	4.90	5.90	6.80	7.90
-------	-------	------	------	------	------

6 ft.	5.90	7.30
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FLATS—Continued

CYPRESS FLATS			
TOP GRADE FLATS THAT LAST			
No.	Size I.S.M.	Per 100	Wt.
1.	14x20x2 3/4 ins.	25.80	590
2.	14x20x3 3/4 ins.	30.00	680
3.	12x16x2 3/4 ins.	20.00	440
5.	14x16x2 3/4 ins.	22.50	510
7.	15x22x2 3/4 ins.	29.50	670
8.	15x22x3 3/4 ins.	33.80	780
9.	11 1/4x22 1/2x3 3/4 ins.	23.50	540
Any size to order. Bottoms and sides 3/4-in. thick; ends 1/2-in. All planed one side. 5 per cent discount on orders for 500 or more. Terms: Cash. Up to 3 lines printing, \$1.00 setup charge plus 1c per end piece. Shipped K.D., units of 25. F.O.B. Williams- ton, N. C., truck.			
H. C. HILL & SONS P. O. Box 747 Williams- ton, N. C. Phone Swift 2-4127			

LABELS

DAHLIA OR TREE LABELS			
		Priced per carton	
3 1/4 x 5/8 ins., notched, not wired.	Plain	\$3.00	Painted
3 1/2 x 5/8 ins., wired (copper)		3.95	4.90
POT LABELS			
4x4 ins. (cartons 1000 each)		3.95	4.60
5x5 ins. (cartons 1000 each)		4.30	5.10
6x6 ins. (cartons 1000 each)		4.70	5.80
GARDEN STAKES			
8x 3/4 ins. (cartons 500 each)		\$3.50	\$4.30
10x 3/4 ins. (cartons 500 each)		4.20	5.10
8x 3/4 ins. (cartons 250 each)		3.00	3.60
10x 3/4 ins. (cartons 250 each)		3.30	3.90
11x 3/4 ins. (cartons 100 each)		2.00	2.40
Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.			
Catalog on request. "We ship same day."			
YOHO & HOOKER, YOUNGSTOWN 2, O.			

PLASTIC LABELS

Perma Plastic labels made of DuPont plastic. The kind that lasts and lasts. Easy to mark with pencil.

3/4 x 2 1/2 in., copper wire	1000 for \$4.90
3/4 x 4 in. pot labels	1000 for 5.00
3/4 x 5 in. pot labels	1000 for 6.00
3/4 x 6 in. pot labels	1000 for 6.80
3/4 x 8 in. pot labels	1000 for 8.50

Please include 50c for postage and packing.
"We ship same day."

YOHO & HOOKER

Box AN 1165 Youngstown 1, O.

VINYL PLASTIC AND PAPER LABELS
For pots, trees and shrubs, plain and printed, up to 6 lines, black, red or green ink. Available in 4 fade-proof colors. Plastic price cards, plain and printed (classified). Write for price list and samples. Mfg. by HEINZ GARDEN SUPPLY

100 Oak Ave. S. E. Mountain View, Calif.
FINEST BLANK OR PRINTED wood labels.
BENJ. CHASE CO., VI. Sta., DERRY, N. H.

PEAT MOSS

"BRODLEAF." Best Holland PEAT MOSS. Gardner No. 110 and No. 85, Growers No. 120 Growers Jumbo No. 170. Two Bales Equal 3. HALF MOON CO., Box 27A, Plainfield, N. J.

PLANT TIES

"QWIK-TIES." NEW, IMPROVED PLASTIC PLANT TIES
Guaranteed fade-proof.
Small, strong, almost invisible. Economical and easy to use. Packed in bundles of 250 ties for convenient use.

Size	Per carton of 10,000	Av. weight per carton
1-in.	\$10.00	5 lbs.
8-in.	18.00	10 lbs.
12-in.	27.00	14 lbs.

McHUTCHISON & CO.
695-N Grand Ave. Ridgefield, N. J.

PLASTIC FILM

GER-PAK POLYETHYLENE FILM
SUN-RESISTANT BLACK FOR MULCHING .0015 MIL.

3 ft. x 500 ft.	\$ 7.45 roll
3 ft. x 1000 ft.	14.90 roll
4 ft. x 1000 ft.	19.90 roll

NATURAL TRANSPARENT ONLY

.002 MIL. ALL ROLLS 200 FT. LONG	
4 ft. 2 ins. x 200 ft.	5.55 roll
8 ft. 4 ins. x 200 ft.	11.10 roll
12 ft. x 200 ft.	15.90 roll

NATURAL TRANSPARENT ONLY

.004 MIL. ALL ROLLS 100 FT. LONG	
3 ft. x 100 ft.	4.00 roll
4 ft. x 100 ft.	5.30 roll
6 ft. x 100 ft.	7.98 roll
8 ft. x 100 ft.	10.65 roll
14 ft. x 100 ft.	18.50 roll

MINIMUM ORDER .004 mil. 4 rolls up to 8 ft. Write for low prices on quantity orders. Other sizes and mil. weights available up to 40 ft. in natural and black film.

PHONE BALDWIN 3-8277
DAYTON NURSERY & GARDEN SALES
P. O. Box 763 Dayton 1, O.

POLYETHYLENE FILM
1 1/2 mil., black, in 1000-ft. rolls, 3 ft. wide, \$17.34; 4 ft. wide, \$22.95.
3 mil., natural, in 200-ft. rolls, 4 ft. 2 ins. wide, \$6.80; 8 ft. 4 ins. wide, \$12.75; 12 ft. wide, \$18.36.
4 mil., natural, in 100-ft. rolls, 3 ft. wide, \$5.10; 4 ft. wide, \$6.80; 6 ft. wide, \$9.52; 8 ft. wide, \$12.24; 10 ft. wide, \$15.30; 12 ft. wide, \$18.36; 14 ft. wide, \$21.42; 16 ft. wide, \$24.48; 20 ft. wide, \$30.60; 24 ft. wide, \$36.72; 28 ft. wide, \$42.84; 32 ft. wide, \$48.96; 40 ft. wide, \$61.20.
6 mil., available in widths up to 40 ft.
15 per cent discount on orders over \$24.00.
25 per cent discount on orders over \$60.00.
40 per cent discount on orders over \$250.00

We pay freight if check is with order.
ROUGH BROS.
4229 Spring Grove Ave. Cincinnati 23, O.

POLYETHYLENE FILM
Natural, transparent, made from DuPont Alathon. The amazing film for greenhouses. 3 ft. x 100 ft., .004 mil., \$5.10 roll; 4 ft., \$6.80; 6 ft., \$9.52; 8 ft., \$12.24; 10 ft., \$15.20; 12 ft., \$18.36; 14 ft., \$21.42; 16 ft., \$24.48; 20 ft., \$30.60; 24 ft., \$36.72; 28 ft., \$42.84; 32 ft., \$48.96; 40 ft., \$61.20.
Black for garden mulching.
Kill weeds. Increase yield.
Black, .0015, 3 ft. x 500 ft., \$12.00; 3 ft. x 1000, \$20.00; 4 ft. x 1000 ft., \$24.00.
See discounts below.
15 per cent on orders over \$24.00.
25 per cent on orders over \$60.00.
40 per cent on orders over \$250.00 sq. ft.
We pay freight, check with order.
"We ship same day."

YOHO & HOOKER
Box AN 1165 Youngstown 1, O.

POLYETHYLENE FILM
SAVE MONEY AT THESE LOW PRICES
.0015 mil., black, 3 ft. x 1000 ft. \$12.75
.002 mil., clear, 4 ft. 2 ins. x 200 ft. 4.58
.004 mil., clear, 6 ft. x 100 ft. 6.80
.004 mil., clear, 16 ft. x 100 ft. 17.60
.006 mil., clear, 12 ft. x 100 ft. 19.80
Many other widths available in clear or black.
Save up to one-third. WHY PAY MORE?
Write for complete list of sizes and prices per roll.

SUPERIOR PLASTICS
1421 W. Chicago Ave. Chicago 22, Ill.

DUPONT'S WEATHERABLE MYLAR
5 mil., NEW TYPE W-1 (One side exposure.)
42 ins. wide x 100 ft. long roll \$52.50
48 ins. wide x 100 ft. long roll 60.00
51 ins. wide x 100 ft. long roll 63.75
1000-ft. rolls, same widths, 13 1/2¢ per sq. ft.
FREIGHT PREPAID, CASH WITH ORDER
5 mil., TYPE W-2 (Two side exposure) also available. Write for prices and information.
ROUGH BROS., INC.
4229 Spring Grove Ave. Cincinnati 23, O.

VIKING CLOTH—Plastic Sealed Burlap.
Let in light. Keep out Water Wind.
In 50-yard rolls 5 ft. wide, \$38.00.
Polyethylene. Clear, Black, Rolls, Sta.
HALF MOON CO., ox B27A, Plainfield, N. J.

Quick — Convenient — Cheap!
Selling through the Classified Ads of the American Nurseryman.

PLASTIC POTS

NEW LOW PRICES
WILSON HIGH IMPACT
POLYSTYRENE PLASTIC POTS
Attractive mottled green colors in utility grade, sold in original cartons only. All prices F.O.B. Dayton, O.

	Per 1000	Wt.
2 -in., round, 1000 case	\$ 10.75	13 lbs.
2 1/2 -in., round, 1200 case	11.75	18 lbs.
2 1/2 -in., round, 1000 case	14.50	22 lbs.
3 -in., round, 1000 case	18.25	36 lbs.
4 -in., round, 500 case	32.00	30 lbs.
5 -in., round, 300 case	63.00	38 lbs.
6 -in., round, 120 case	110.00	34 lbs.
7 -in., round, 72 case	170.00	35 lbs.
7 -in., round tub, 500 case	32.00	33 lbs.
6 -in., round tub, 120 case	100.00	25 lbs.
2 1/2 -in., square, 1000 case	11.75	17 lbs.
2 1/2 -in., square, 1000 case	14.75	22 lbs.
3 -in., square, 1000 case	18.25	35 lbs.
4 -in., square, 500 case	32.00	23 lbs.
No. 10 Plants Can, 150 cases	120.00	45 lbs.

Also available in decorator colors. Write for quote on colors. Send fifty cents (50c) for complete set of samples postpaid.
DAYTON NURSERY & GARDEN SALES
P. O. Box 763 Dayton 1, O.
Phone Baldwin 3-8277

PLASTIC POTS
Now we can again "ship same day."
Used by leading growers everywhere.
Guaranteed no breakage.

	Per 100	Per 1000
2-in., round	\$1.00	\$ 9.50
2 1/2-in., square	1.25	10.00
2 1/2-in., square or round	1.50	13.75
3-in., square or round	1.75	16.50
4-in., square or round	3.00	29.00

Please include 50c postage on 100 orders.
YOHO & HOOKER
Box AN 1165 Youngstown, O.

NEW HERCULITE SALES MAKER POTS
THE ONLY POT MADE FROM GREEN
POLYETHYLENE COATED FIBER. FEAT-
URES AERATION HOLES FOR HEALTH-
IER PLANTS.

PRICED PER 1000		No. per F.O.B.	
No.	W. Bottom	Hgt.	ctn. Dayton
55	5-in. 4-in.	5-in.	200 \$ 50.00
66	6-in. 5-in.	6-in.	200 \$ 75.50
76	7-in. 6-in.	6-in.	100 \$ 82.50
79	7-in. 5 1/2-in.	9-in.	100 70.00
86	8-in. 7-in.	6-in.	100 70.00
89	8-in. 6 1/2-in.	9-in.	100 80.00
99	9-in. 7-in.	9-in.	100 100.00
1010	10-in. 8-in.	12-in.	50 136.00
1212	12-in. 10 1/2-in.	12-in.	50 246.00

Send \$1.00 for complete set of sample pots, postpaid.

PHONE BALDWIN 3-8277
DAYTON NURSERY & GARDEN SALES
P. O. Box 763 Dayton 1, O.

PRINTING

Letterheads, 8 1/2 x 11 ins.; envelopes, 6 1/2 size; 250 of each, \$6.50, postpaid in U.S.A.
H. Grebe, 306 Union St., Rye, N.Y.

REED MATS

GUARD 'N SHADE
DUTCH-MADE REED MATS
Carefully woven with a generous amount of reed. Durable and easy to handle. Ideal for coldframe protection in spring and fall. AVAILABLE IN 3 SIZES. F.O.B. ATLANTIC AND GREAT LAKES PORTS, 6x6 FT. SIZES AVAILABLE FOR IMMEDIATE SHIPMENT. WRITE FOR PRICES.
McHUTCHISON & CO.
695-N Grand Ave. Ridgefield, N. J.

SPHAGNUM MOSS

WISCONSIN'S FINEST SPHAGNUM
1960 crop, long, clean, heavy fibered, standard 12x14x43-in. bales, solid pack, burlap. 1 to 10, \$1.80; 11 to 50, \$1.75; 51 to 100, \$1.70. F.O.B. Warrens, Wis.
Finest quality milled sphagnum, the ideal material for seed germination. 2 1/2-bu. bags, 1 to 5, \$2.00; 6 to 10, \$1.90; 11 or more, \$1.75 per bag. F.O.B. Warrens, Wis.
Satisfaction guaranteed. Prompt shipping via rail, express or truck. Contact us for special prices on quantity shipments via truck or rail on burlap or wire bales and milled sphagnum in 2 1/2, 5 or 9 bu. bags. Prices subject to change.

WARRENS MOSS CO.
Box L Warrens, Wis.
PHONE TOMAH 625

Fresh, clean sphagnum moss, write, or phone City Point 133 for our low prices on wire-bound bales in truckloads or carlots.
Tony Jaromir, City Point, Wis.

STAKES

CYPRESS PLANT STAKES
50 pieces to bundle.
1x1-in.—3 ft., pointed \$3.00 per bundle
1x1-in.—4 ft., pointed 3.50 per bundle
1x1-in.—5 ft., pointed 4.50 per bundle
1x1-in.—6 ft., pointed 5.50 per bundle
1x1-in.—7 ft., pointed 7.00 per bundle
These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!
YOHO & HOOKER
Youngstown, O.

STAKES, GALVANIZED HARD STEEL
GALVANIZED tree-guying WIRE.
HOSE for guy-wire PADDING.
Prices and samples on request.
SCHUFF SUPPLY CO., WILMETTE, ILL.

Plant Stakes, see large ad under Cane Stakes. McHutchison & Co., Ridgefield, N. J.

TRADE BOOKS

TRADE BOOKS.
Descriptive book circulars available on request.
65 PRACTICAL GARDEN PLANS,
by John Elliott, \$1.00.
SEEDS AND POTTING COMPOSTS,
by Lawrence and Newell, \$2.00.
THE GRAFTER'S HANDBOOK,
by R. J. Garner, \$5.75.
HAVE YOU TRIED PERENNIALS,
by C. H. Potter, \$3.00.
TREES FOR AMERICAN GARDENS,
by Dr. Donald Wyman, \$8.00.

These books may be obtained, postpaid, at the publishers' prices indicated, from

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

CALIFORNIA NOTES

[Continued from page 125]

such subjects as "Causes of Plant Diseases," "Relationship of Environment and Insects to Plant Diseases," "Diagnosis and Control of Plant Diseases" and "Recent Advances in Control of Diseases of Container-grown Nursery Stock." About 150 nurserymen, landscape contractors and other professionals interested in the health of nursery products attended each meeting. Those who attended every meeting were given a certificate.

Howard Brown, head, department of floriculture and ornamental horticulture, Cal Poly, San Luis Obispo, has been attending meetings of the California Association of Nurserymen's committee on the Cal Poly refresher course, which will be held at the college in June, and on scholarship. He is planning to be at Ohio State university while on sabbatical leave next year, to complete the work for a degree of doctor of philosophy.

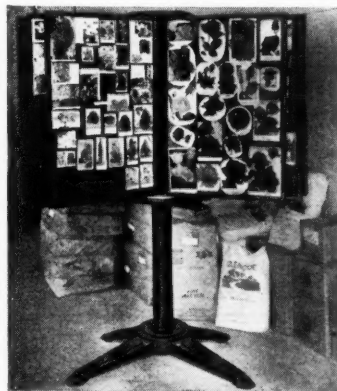
The University of California agricultural extension service has published a circular entitled "Survey of Trees and Shrubs Growing in Containers on California City Streets." It was prepared by William D. Davis, extension ornamental horticulturist, and Maunsell Van Rensselaer, director of the Saratoga Horticultural Foundation, Saratoga. It discusses the containers used, the kinds of trees planted, the soil, management and the combination container and direct street tree planting. The authors indicate that it is not a complete survey of the state, but it is issued now to provide some preliminary information that might be of immediate service to cities wishing to embark on a similar tree program this spring.

John Davis, Menlo Park arborist and agricultural pest control operator, has nearly completed the moving of 35 giant live oak trees. From an area south of the city of San Jose they were moved to a site west and somewhat north of the city to the location of a \$50 million shopping center. The trees were from 15 to 35 feet tall, and the heaviest of them weighed an estimated 50 tons when hoisted onto the carrier. The trees were planted as soon as they reached the new site and in most cases were in place in a relatively short time. Mr. Davis states that labor, equipment rental and costs amounted to about \$1,500 per day. In addition to the live oaks, blue spruce trees, smaller oaks and a host of deciduous trees are being set out.

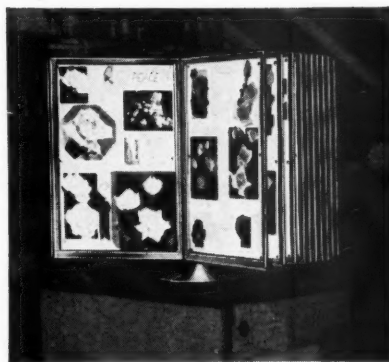
The building housing the office of San Mateo county agricultural com-



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3 types of
MULTIPLEX
DISPLAYS
to increase
your sales



Show it well and it will sell

MULTIPLEX

Multiplex Display Fixture Co.
Dept. B, Warner and Carter,
St. Louis 7, Mo.

Please send complete catalog on display equipment for nurserymen.

Name

Company

Address

City & State

MR61

PLANTERS

Large-Size, Long-Lasting Tubs

Approximately 15 ins. deep, 25 ins. at top, 20 ins. at bottom. Made from used whiskey barrels. Available painted or unpainted, to wholesalers and retailers.

Write, Wire or Call:

LOUISVILLE COOPERAGE CO.

421 W. Avery St.

Phone: Melrose 7-4711

Louisville 8, Ky.



missioner and known formerly as the Agriculture building has been named, by order of the county board of supervisors, the Max J. Leonard building, in honor of Mr. Leonard, who retired as commissioner last July after over 30 years' service.

Dr. Kenneth Baker, plant pathologist, University of California at Los Angeles, will spend part of his sabbatical leave conducting research at the University of Adelaide agricultural research institute, in Australia. He is best known to the nurserymen in the state from his studies on the use of steam in the treatment of soils for container-grown plants. Among his developments has been the "cold" steam soil treatments, whereby air and steam are introduced at the same time. The air lowers the temperature

of the steam to about 180 degrees, high enough to kill most plant pathogens and low enough to spare most of the benign soil microorganisms. After his return he will devote some time to the completion of a book on plant diseases, and when his leave is up he will be transferred to the Berkeley campus of the university.

Mountain View has introduced to its city council a street tree ordinance. It contains stiff regulations, a list of 16 recommended trees for planting in the city and a map pinpointing their locations. It will give the park department clear-cut authority over the planting and care of street trees and it provides penalties for malicious damage to approved trees. As is now the case, subdividers will be required to plant

new trees when tracts are developed.

The National Shade Tree Conference, Western chapter, held a regional meeting at the Arizona State College, Tempe, March 3. The annual convention of the chapter will be held at Vancouver, B. C., June 20 to 23. The chapter was grieved to learn of the death, in December, of one of its past presidents, Dr. Pierre Miller. Dr. Miller had been on the staff of the department of plant pathology at the University of California at Los Angeles until his June, 1959, retirement. He had been ill about one month and died in the Santa Rosa hospital, near his home in the Santa Cruz mountains, in Marin county.

Participants in the California arboricultural research program

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.50 per inch, each insertion.

Linners: 40c line; minimum order **\$4.00**.

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NURSERY SUPERINTENDENT

Wanted by one of country's largest and best established mail-order nurseries to supervise growing of general line of nursery stock. Farming about 400 acres. Already have experienced, capable field foreman but need good man to supervise and co-ordinate. Have company-financed major medical insurance, life insurance, retirement program, paid vacations. All replies held in strictest confidence. Write or telephone:

John Knapp

HENRY FIELD

SEED & NURSERY CO.

Phone: No. 1 Shenandoah, Iowa

HELP WANTED

SUPERVISING LANDSCAPE FOREMAN

For Delaware nursery specializing in high-quality landscape work, mostly carriage trade. An unusual opportunity in a young growing business in a high income community. Applicant must take responsibility for execution of all landscape work (including hiring and firing connected with running 4 crews and maintenance of 4 trucks and other related equipment); also prepare bids for some project work. Designing by others. Applicant must be interested in permanent association and must have horticultural background in commercial landscape field including: Good knowledge of ornamental plants, ability to move large trees and experience with execution of bid projects. Attractive salary, paid vacation, A.A.N. insurance and home in rural setting. Apply Box 2708, Wilmington 5, Del.

HELP WANTED

GENERAL NURSERY SUPERINTENDENT

Experienced in production with thorough knowledge of plants, spraying and baling, for small nursery. Attractive salary to qualified man. Good modern home on premises. Permanent; bonus and insurance benefits. Location upper midwest. Applicant must be above average in ability. Send full resume, with photo, references, salary expected and date available. Write Box 798, care of American Nurseryman.

HELP WANTED

LANDSCAPE SALESMAN

With architectural ability. Should know plant material and proper usage of same. Unlimited sales potential both in home and industrial construction. Good salary and bonus. Permanent. Send references, full resume and photo in first letter. Write Box 799, care of American Nurseryman.

HELP WANTED

Experienced and successful salesman for one of Connecticut's largest and most progressive landscape and tree expert firms. Unlimited opportunities for the right man. Send photograph, data sheet listing experience, age and references.

Oscar F. Warner

LANDSCAPE FORESTER, INC.

24 E. Aurora St. Waterbury, Conn.

HELP WANTED

REQUIRED IMMEDIATELY

Services of man with training and experience to take responsibility for productive management of 200-acre estate in Putnam Co., N. Y. House suitable for small family and adequate salary. Apply Box 822, care of American Nurseryman.

HELP WANTED

Landscape salesman capable of contacting homes and industries, designing, selling and supervising plantings in New England area.

One landscape foreman for planting and construction.

Reply to Box 813, care of American Nurseryman.

HELP WANTED

LANDSCAPE AND NURSERY SALESMAN

Large, prominent Philadelphia concern has opening, offering outstanding opportunities for man with proven ability. Highly profitable, permanent position. Earnings of \$10,000 and up, plus profit-sharing plan. State full qualifications. Mail to Box 789, care of American Nurseryman.

HELP WANTED

Experienced nursery working foreman must know plant material and how to dig and ball stock. Permanent. Send full resume.

R. K. RIBSAM NURSERIES, INC.
P. O. Box 109 Trenton 1, N. J.

HELP WANTED

LANDSCAPE SUPERINTENDENT

Man with practical experience to oversee and direct field operations of landscape crews doing private residential work. Should have working knowledge of grading, wall and patio construction, stonework and soil needs and planting of materials up to 12-inch caliper. Must be able to meet and talk to clients on job, although no selling is required.

FALOMBO NURSERIES, INC.
131 Freeport Rd. Pittsburgh 15, Pa.

HELP WANTED

FOREMAN

To supervise digging, planting and growing operations in medium-size wholesale evergreen nursery in Connecticut. State qualifications, age and salary expected. Write Box 808, care of American Nurseryman.

HELP WANTED

MANAGER

\$10,000 bracket, thoroughly experienced, 35 to 50 years old, self-starter, enthusiastic salesman. Retail nursery.

ROSEDALE'S NURSERIES, INC.
400 W. Huntington Dr.
Monrovia, Calif.

SITUATION WANTED

Seeking more challenging position with a future. 39 years of age, family man. 15 years' experience with state park systems and educational institutions in all phases of grounds maintenance. Horticultural background in landscape field, some design and sketching, plant propagation, greenhouse work with foliage, pot and bedding plants. Familiar with most planting material. Experience is in both operational and supervisory capacities. Very adaptable to any situation. Presently employed in these capacities by a southern state college. Available on 30 days' notice. Complete resume on request. Open to any sound situation, in either institutional or private business, located in the south or southwest. Reply to Box 820, care of American Nurseryman.

HELP WANTED

Aggressive, experienced man wanted to take complete charge of retail and wholesale shipping departments and general warehouse operation. Duties will include hiring and directing of employees, inventory control, purchase of materials, etc. Salary guaranteed, with annual paid vacation plus every opportunity for advancement for man who can qualify.

We will also have several other positions available in our production and sales departments. If interested, send us your complete written resume, addressed to the attention of W. C. Grullemans. All information will be held in strictest confidence.

THE WAYSIDE GARDENS CO.
Mentor, Ohio

HELP WANTED

OUTDOOR NURSERY FOREMAN
Large well-established wholesale nursery located in central New Jersey. Attractive salary, paid vacations and A. A. N. insurance. Applicant must be between 30 and 50 years old, interested in permanent association and must have general horticultural background. Apply Box 126, Holmdel, N. J.

HELP WANTED

Individual experienced in designing, estimating and selling landscaping, residential and commercial. Must be willing to develop prospects. Leads supplied by company.

SIMMONS NURSERY &
LANDSCAPE, INC.
2260 Eastgate Rd. Toledo 14, Ohio

WANTED

By established sales agency covering eastern and midwestern states. Reputable west coast rose grower desiring distribution in these areas. Must have large variety assortment of common and patents. Write Box 814, care of American Nurseryman.

BUSINESS OPPORTUNITY**WORKING OWNER**

Large modern garden center in mid-west wishes to expand landscape-nursery section. Experienced and trained landscape nurseryman, with capital to invest in corporation wanted. Write Box 818, care of American Nurseryman.

FOR SALE

1954 1½-ton stake body Studebaker truck. Low mileage, excellent condition. \$750.

50-in. Howard Rotovator tiller with internal gears, \$250.

WALTER D. HADFIELD
R.D. 1 Downingtown, Pa.

WANTED TO BUY—Tractor and cultivator with sufficient clearance to cultivate peonies. Also spraying equipment for peonies. **ATHA GARDENS**, West Liberty 6, Ohio.

SITUATION WANTED

Horticulturist seeking opportunity in private or commercial landscape nursery.

Experience and education in developing farm and forest land into productive nurseries. Excellent knowledge of native and ornamental plant material of the north-east.

18 years of successful work in developing choice plant material and naturalistic landscapes can be repeated for you. Proof of all past work available on interview.

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FOR SALE

2¼ acres sandy loam, fully irrigated. Owner's home, 6 other buildings. No overgrown shrubs, all salable, best varieties, for local landscaping. Broad-leaved; conifers; ornamental trees; dwarf fruit trees, bearing age. Thousands of liners. 15 miles from Portland, Ore. Write or call:

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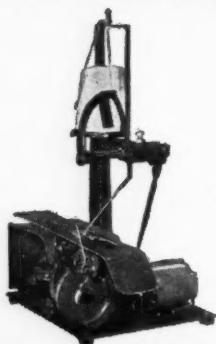
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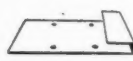
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headed by Prof. P. A. Baker, lecturer in landscape horticulture, University of California at Davis, met at Modesto February 21 for the first of a series of performance evaluations of landscape trees in various environments. The group of representatives from city park departments from all over northern California met at the West Side park at 9 a. m. and, after getting acquainted with one another, held informal discussions on the subject of city street trees and tree plantings. At 11 o'clock they saw a color slide preview of an afternoon tour of certain streets in the city, and after lunch toured the city of Modesto to see first hand the city's street tree program.

The graduating students in the courses in ornamental horticulture and floriculture served as guides at the recent open house at the City College of San Francisco. The open house was held to familiarize the members of the two industries with the facilities at the college, which offers a number of courses in semi-professional occupations, and to give the possible employers of these young men and women an opportunity to meet with them in a somewhat informal manner. The event was declared highly successful by the authorities at the college, by the 100 or so members of the industry who attended and by the students.

According to an information bulletin published by the L. H. Butcher Co., state-wide distributors of pesticides, spider mites (red spiders) are the most costly pests to the state's ornamental horticulturists.

The city of Oakland park department held its annual chrysanthemum plant auction again this spring. The plants offered were largely outdoor types, which are grown in the city's chrysanthemum gardens. Each fall there is a well-attended chrysanthemum show, when the plants are at the peak of bloom. Commercial and home gardeners attend the week-long show and make notes about the kinds which interest them most. In the spring the department sells off at the auction the extra plants which it has propagated during the winter months in its own greenhouses.

W. B. B.

LAKE COUNTY SCHOOL

[Continued from page 18]

use but cannot because of limited supplies.

Speaking of trends in downtown Cleveland, Mr. Creed also mentioned that more trees planted either in tubs or directly in the pavement or sidewalk are appearing in front

of stores, banks and restaurants. European lindens, thornless honey locusts, Washington hawthorn and sweet gum have been used for this purpose, but it was recommended the purchaser be informed that in the course of several years the trees may have to be replaced, because of the unfavorable growing conditions to which the material is subjected when grown in this manner in downtown areas.

Still a Place for Tall Trees

Mr. Creed also feels that, despite the emphasis being placed upon the desirability of low-growing trees, there is still a definite need for the better varieties of the taller-growing species. Public areas such as parks, playgrounds, recreation areas and freeways present many opportunities for planting large trees, and here, again, the nurseryman can be of help by growing a selective list of fastigate forms of such trees as maple, oak, ginkgo and liriodendron, so that the stock will be available in greater quantity.

With the tremendous expansion of freeways and other types of highways throughout the entire United States, there should be an ever-increasing demand for large trees, provided that nurserymen, through educational programs sponsored by their trade associations, make the public aware of the need for highway landscaping.

Another speaker for this portion of the program was William A. Behnke, affiliated with Behnke-Szunyog-Ness, landscape architects, Cleveland, who specialize in site planning and commercial, industrial and school landscaping.

All of the speakers stressed the use of plants that are easily maintained, especially in public projects. With reference to swaying public opinion in favor of better landscaping for schools, highways, etc., it was pointed out that garden clubs carry much weight, and they can be a great help to nursery organizations in this respect.

Highway Planting

A question and answer period followed, and, after a short intermission, the subject of highway planting was discussed by Mrs. Alberta Taubert, landscape architect, and H. C. Horton, Horton Nurseries, Inc., both of Madison, and R. B. Stout, landscape contractor, Akron.

Mrs. Taubert traced the progress of roadside development in Ohio since 1934. She stated that the scope of present work encompasses erosion control by planting and seeding, as



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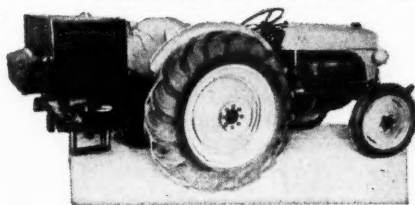
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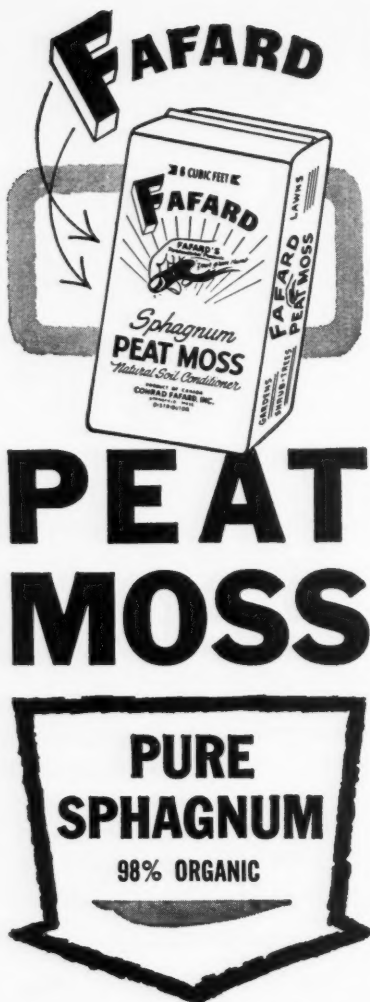
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well as functional features for safety on highways, such as planted median strips and placement of trees and shrubs to lessen glare and as directional guides for traffic.

Screen plantings to obscure objectionable views and to reduce traffic noises and fumes, flowering trees and shrubs and the control of billboard construction were factors considered in the discussion. It was pointed out that the comprehensive development of the entire program will be fully realized only through continued pressure by the public through organized groups.

The role of the nurseryman in the development of highways is to be in a position to furnish material suited for highway planting, to maintain an inventory of hardy native trees and shrubs and to propagate desirable plants that now are unavailable or difficult to obtain.

Needed in Greater Supply

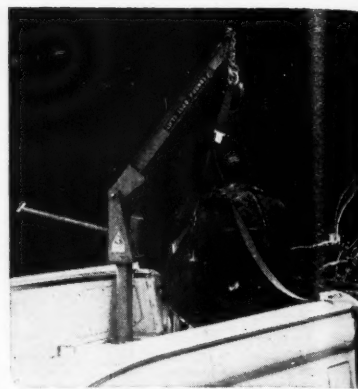
In this group are such items as *Viburnum dentatum*, *americanum*, *cassinoides*, *sieboldi* and *lentago*; *Aronia melanocarpa*; *Rosa nitida*; *Hypericum aureum*; *Crataegus nitida*; *Cornus alba*, *amomum* and *stolonifera*; *Amelanchier canadensis*, *laevis* and *stolonifera*; *Corylus americana*, and *malus* species, and trees such as *acer*, *fraxinus*, *celtis*, *quercus*, *liquidambar* and *tilia*. Difficult maintenance of landscape planting cannot be justified, particularly when there are so many satisfactory materials requiring little care.

The last subject discussed before the conclusion of the morning session was "City Planting," by Charles L. Knight, landscape architect, Shaker Heights, and Dr. Kenneth Reisch, assistant professor of horticulture, Ohio State University, Columbus.

Mr. Knight gave a detailed talk on the environmental and hereditary factors which affect the growth of plants. Planting time and availability, root growth and the cost and ease of transplanting, as well as maintenance requirements, must be considered in choosing plant materials for the urban landscape.

The likelihood of vandalism (mutilation of bark and stripping of blossoms and fruit from plants), traffic problems that may be created by planting some types of materials where they would obscure visibility and the protection and privacy which fences afford property are also considerations that affect the design and choice of planting materials to be employed.

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(See page 32 for more exciting Du Pont news)

and with varying foliage colors and textures. Special features that make plants or shrubs particularly desirable, such as outstanding fruiting qualities, interesting bark or branch structure and winter coloring, give some materials added appeal.

These characteristics add distinction to plantings and tend to raise them above the commoner garden subjects, so that their use lends individuality and refinement to a landscape. Mr. Knight concluded his presentation with a list of desirable materials for Ohio home landscapes.

Dr. Reisch showed slides of some interesting municipal plantings in Detroit and other cities and of landscapes about new housing developments, shopping centers, motels and airports, as well as on industrial and

commercial sites. He also mentioned that it is up to nurserymen to educate building contractors and homeowners in the preservation of existing trees and to instill in them a realization that landscaping the grounds is as important as decorating the interior of the home. This is particularly true in sections where new allotments are being opened.

The afternoon session was in charge of Logan Monroe, Kingwood Nurseries, Mentor, president of the Lake County Nurserymen's Association. Marvin Carbonneau, extension specialist, ornamental horticulture, Ohio State University, acted as moderator for a panel discussion on the results of soil sterilization.

David Dugan, Dugan Nurseries, Perry, showed slides of fumigating

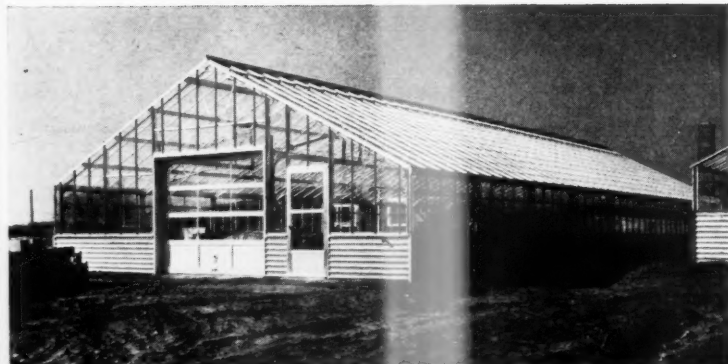
equipment attached to tractors. One assembly injected methyl bromide into the soil as a gas and automatically unrolled a plastic sheet over the treated soil. An attachment at soil level hilled earth over the edges of the plastic so that it would remain in place.

Steam Sterilization

The use of steam in soil sterilization for bed and potting operations was discussed by Richard Boonstra, Wayside Gardens Co., Mentor, and Edward Losely, Perry. Both have found this method highly satisfactory in weed seed and disease control.

Mr. Losely stated that steam sterilization is preferred because plant injury is not sustained, as it sometimes is under other methods of weed con-

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trol. A portable steam boiler is used. References indicate that temperatures as low as 160 degrees Fahrenheit are sufficient to kill weed seeds; however, the commonest figure given for complete sterilization is 180 degrees, maintained for 30 minutes.

The ease and effectiveness of sterilization by this method are affected by certain factors. For instance, dry soil is, of course, more economical to steam than wet or cold soil. Soil temperature should be checked to at least six inches. Shallower steaming will result in weed infestation.

Planting may proceed as soon as soil is cool, usually 12 to 14 hours after steaming. Soils with high nitrogen content must be watered heavily for several weeks if planting follows immediately after steaming, because of toxic concentration of nitrate nitrogen that tend to accumulate in steamed soils for about six weeks after steaming.

Avoid Reinfestation

Good weed control is maintained throughout the first growing season, with only fair control the second season. Much of the lack of control the second season results from a reinfestation from walk areas, so it is well to sterilize walk areas in addition to the bed areas to eliminate this source of infestation.

Mr. Boonstra also reported that his firm has been side-dressing plants in the field for nematode control and will continue using this method to observe the reaction of various types of plants until they have determined which ones respond most satisfactorily. Mimeographed notes, entitled Principles of Soil Sterilization, were distributed by Mr. Carboneau.

"Recent Information on Nursery Insect Control" was discussed by Dr. R. B. Neiswander, entomologist, Ohio agricultural experiment station, Wooster. One of the subjects covered by Dr. Neiswander was the effectiveness of dust or spray on roses. To maintain rosebushes free from black spot and other diseases, it is of primary importance that a weekly dusting or spraying program be adhered to strictly.

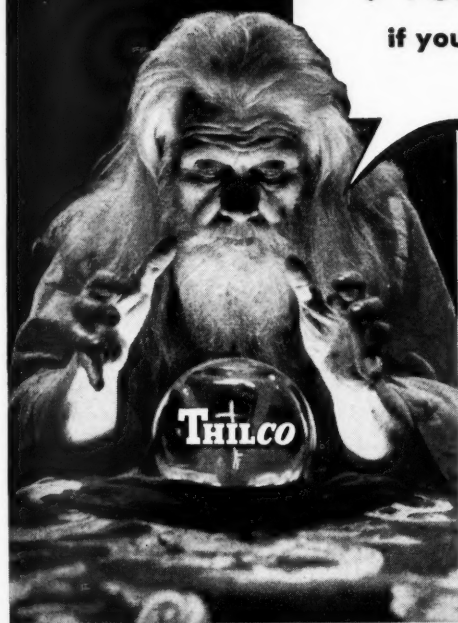
Slides showing injury by the spruce spider mite and by the northern pine weevil on Christmas tree plantings were shown. The adult northern pine weevil causes damage by chewing on young bark and breeds in cut stumps of Christmas trees. The spruce spider mite has been reported more often in the past three years than any other pest. Ovotran is an excellent miticide; Tedion and Kelthane are also effective and may last longer than one application of Ovo-

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tran. Satisfactory results were also reported with the use of systemic insecticides to control red spider on chrysanthemum plants.

Dr. L. C. Chadwick, professor of horticulture, Ohio State University, and Dr. Reisch gave reports on research in the fields of container production, foliar leaf analysis and flower bud initiation in pyracantha, as well as chemical control of weeds in nursery areas and tolerance of ornamentals to residual amounts of herbicides.

Uncommon Plant Materials

Slides were shown by Dr. Chadwick of some recommended uncommon shade trees, shrubs and evergreens. Some of the subjects shown were Moraine ash, slower growing than most of the other ashes; Ginkgo biloba Autumn Gold, a selection by the Saratoga Horticultural Foundation, Saratoga, Calif.; Quercus shumardii schneeki, sometimes called the Texas oak, with scarlet autumn coloring; The Japanese pagoda tree, Sophora japonica, one of the few trees available that flower in mid-summer; Pyrus calleryana, with pea-sized fruit; Fagus sylvatica fastigiata, one of the best of the upright trees, and Aesculus carnea brioti, an excel-

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Don't let the high cards tempt you. This is no better than drawing to an inside straight (odds about 12 to 1 against filling). Fold...fast...and patiently wait for a good hand.

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lent medium-size tree, with ruby-red flowers about the end of May.

One of several small-size maples mentioned was the paperbark maple, *Acer griseum*, the cinnamon-colored bark of which is outstanding in the winter. It attains a maximum height of about 25 feet. *Cladrastis sinensis* differs from the common form in that its flowers are borne upright rather than drooping.

In the hawthorn, *Crataegus ambigua*, the Russian hawthorn, was shown. This is a small tree, 15 to 18 feet in height, with white flowers and red fruit. Its bark is interesting in winter. The upright form of golden-rain tree, *Koelreuteria paniculata fastigiata*, was also included.

The commonest tree having gray foliage is the Russian olive, but *Pyrus salicifolia*, the willow-leaved pear, also has gray foliage and is a highly desirable small tree. The balance of the slides shown by Dr. Chadwick were selections from the *Taxus* collection at the Wooster experiment station.

At the evening banquet, David Dugan, president of the Ohio Nurserymen's Association, presented a plaque to Glenn Haskins, Lake County agricultural extension agent, making him an affiliate member of the O. N. A. Mr. Haskins has worked for 30 years at his post as county agricultural agent and has co-operated with the local association in planning speakers for meetings, nursery school programs and other activities.

Honored in a similar fashion were Dr. R. B. Neiswander and Marvin Carbonneau. George Gens, George F. Gens & Sons, Norwalk, who recently resigned as secretary-treasurer of the O. N. A., also was thanked for his service during the four years he was in office. A program of entertainment concluded the evening.

THE NEXT TEN YEARS

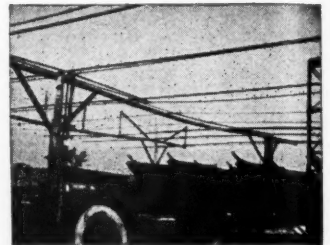
[Continued from page 16]

1970 the number of such members will be approximately one half of that figure, or 276. Although there will be fewer members in our association, the gross dollar volume on which their dues are paid will be 50 to 75 per cent greater than today's.

I believe that the next 10 years are



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going to hurt the small nursery. The small nursery operator, I fear, is going the way of the old-fashioned country store, the independent grocer, who, if he is still in business today, is either just lucky or is operating a delicatessen store and is not making a profit, but simply making wages.

It would be my guess that today 90 per cent of you are doing business basically almost exactly the way you did it in 1950. You have the same business form; you are in the same type of operation. However, I will predict that in 1970 less than half of you will be in business in the same way that you are today. What is going to happen to you? Am I saying that 50 per cent of the people here today are going broke between now and 1970? By no means. What I am simply saying is that you are going to adjust to modern business practices, and I am sure that most of you will, or the chance of your profitable survival is slim. How is this going to take place? Naturally, I do not know, but I venture to say that combinations, mergers and purchases will play an important part.

Merger Moves Likely

If today I happened to be a small successful landscape nurseryman grossing \$25,000 to \$50,000 per year, I would begin to look around and I would pick one or two or three of my neighbors, preferably those I liked and who are operating successfully, and I would suggest to them that we consider merging our businesses into one operation. Instead of pinching pennies to pay one poor salesman a meager salary, several of us could get together and afford the services of a good salesman at a good salary. And instead of having a sizable chunk of money tied up in a large tree mover I was keeping busy only 10 per cent of the time, our merged landscape business could keep one tree mover busy 50 per cent of the time. And then, after this merger had been digested over a period of two or three years, I think I would look around for other likely candidates to invite to join in this expanding business.

I believe this in simple form is the type of thing that every large or small nurseryman must consider. If he does not, I do not believe that he can long survive.

If you are a small nurseryman you cannot afford all the many services you need to conduct a successful business in this complicated world today.

You cannot afford the top-notch, full-time professional accountant you

Increase CASH and CARRY SALES

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(The FIRST Complete Marking System)

Progressive nurserymen everywhere — faced with the problems of seasonal sales and a shortage of trained help — are installing the Silent Salesman. This new marking system answers about 90% of all customers questions permitting each salesman to handle many additional people during periods of peak sales.

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Lengths available
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HAVE YOU TRIED PERENNIALS?. by C. H. Potter. Propagation, soil, field care, marketing and other important data. 160 p., illus. (1959). **\$3.00.**

American Nurseryman

343 S. Dearborn St.

Chicago 4, Ill.

need. You cannot afford to pay for the best legal services available, and let me tell you in this tax world of today the best is none too good. You cannot obtain from your supplier the best they have to offer, because your account is not large enough to justify the time of their salesmen and research staff to devote special attention to it. You cannot afford the research you need for your business. You cannot buy labor-saving machinery, because your operation is not large enough to use it to its maximum efficiency.

Garden Center Needs

I use the landscape nurseryman only as an example. The story is true of every other segment of the industry. The independent garden center, excepting under skillful management, which is not a common commodity, is going to have hard sledding. For instance, if I were an independent garden center operator in the Baltimore area, I would start going around and talking to all of my competitors, pointing out to them the advantages to be achieved through merging our different stores into one corporate unit. I would point out the advantages of volume buying. I would show how much more efficiently our advertising dollars could be spent by having additional coverage of the various sections of Baltimore with stores. I would point out how a combination could afford an efficient centralized bookkeeping and accounting department, how our billings and collections could be more efficiently handled and how our advertising budget would be of sufficient size to be of interest to the best advertising agency in the city of Baltimore.

In the garden center field, the chain store invasion has barely begun. During this next 10-year period it is going to snowball. It is going to hurt the independent operator—in some cases fatally.

For years the nurseryman has considered his business too small to be of any interest to outside big money. Maybe this was true at one time, but it is certainly no longer so. The nursery business is big business, but we nurserymen seem either not to know it or not to believe it. Outside money, big money, is now becoming interested in our business. This is going to continue at an accelerated pace.

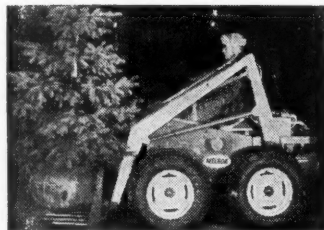
Wholesalers' Problems

The wholesaler is not exempt from this need to grow, either. If today he is a large producer and large wholesaler, he can buy some of the things needed for modern business opera-

THE NEW MELROE 4-Wheel Drive Loader

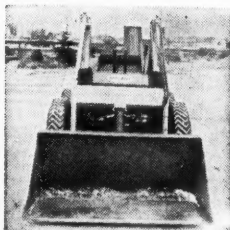
Each side driven independently of other side. No shifting—instant forward, reverse and turn. Your feet raise, lower and tip the bucket or pallets.

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52 ins. wide, 75 ins. long

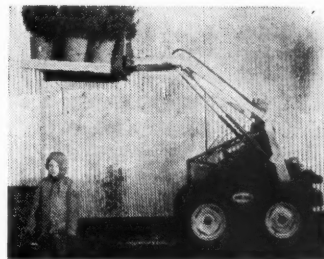
Turns in 80-in. area

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12.9 h.p. engine, 0 to 8 mph.

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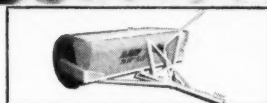
Call Collect:

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tions. He can spend money on market research and product development. He can begin to think in terms of providing advertising allowances for his dealers. He can invest money for long-term research in the field of laborsaving machinery for lower-cost production. He can make investments in developing young, new, interested, alert personnel for management and sales, because he can afford to pay the salaries that will attract the high type of personnel necessary for his success.

If he is a small or middle-size wholesaler, then through some means or other he needs to grow large so as to be able to buy efficiently the many things he needs and hire the services essential to his well-being. So he, too, like the landscape nurseryman and the garden center operator, needs to look around and see how best to achieve this necessary growth.

Frankly, I have a deep admiration for the 1-man independent business of today. I say I admire him; I do not say that I envy him. I admire him for his ability, ambition, wide range of interests and sheer guts. But I repeat that I do not envy him, because in addition to handling the most important part of his business, i.e., the over-all supervision and



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management, he has to be a tax expert, an accountant, a lawyer, a sales manager, an expert in advertising and public relations, a personnel manager and a salesman, besides which, if he is in the field of production, he must have all the know-how of propagation techniques and the art of growing nursery stock at his fingertips.

Now, in spite of this admiration, I know that this man cannot do all of these things adequately at all times. The chances are that he is falling down in more than half of them at any given moment. This is not due to lack of intelligence or any inadequacy on his part; it is simply that the conduct of a successful business today is such an immensely complex undertaking that no single individual is able both to understand and supervise. This is true whether he is operating a 5-man establishment or a 500-man establishment.

Many causes for business failures are given; inadequate capital and lack of management know-how head the list. To me there is a third important reason. It is the constant pressures upon us that cause a shortage in the length of time we spend thinking through our futures. This is not due to lack of intelligence; it is due to lack of time. We are so busy running we do not have the time to decide in what direction to run.

For success in the next 10-year period you must plan. You must make yourself the time to plan and you must do it now.

I wish that in our own business we had the courage to hire an intelligent, alert, imaginative person and assign him the job of thinking, the job of planning the future of our company. We should isolate this man and not permit him to sell a single rosebush, issue a single order or have any other immediate responsibilities. Theoretically, he would have nothing to do with a plan of operation that was not at least two years in the future. If this sounds fantastic, it really is not. It is important.

Now, in this planning for the future that each of us must do, I ask you to allow for the one change that I am dead sure is going to affect all of us in the nursery business. You must plan to go up, get bigger, enlarge, grow, call it anything you want. But I am convinced that the age of the 1-man or 2-man owner-management of a nursery is coming to an end and that the day of corporate stockholder ownership, with hired professional management, is at our doorstep. Each of us must plan for growth into this new form of business enterprise—at least, it is

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USE WEEDER GEESSE

Weeder geese eat troublesome grass and many broad-leaved weeds but do not touch nursery stock. Thousands now in use by nurserymen everywhere in all types of plantings, including evergreen and hardwood shrubs, flowering plants, seedlings, tree plantings, berries and orchards. Weeder geese replace expensive hand labor and do a continuous and better job—are inexpensive and easy to use.

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Available in all
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new to us. Let us do it now, before it is too late.

SHADE TREE CONFERENCE

[Continued from page 17]

advised the use of one or more sections of tree screw rod at the crotch to prevent splitting and installation of cables in the crown of the tree to provide additional supports to the branches. In cases in which splitting has occurred the branches should be drawn together until the split closes and rods and cables should be installed.

The cables should be taut, he warned, but not so tight that the lag hooks by which they are attached to the branch will be pulled from the wood. The cables should be placed about two thirds of the distance from the weak or split crotch to the top of the branches.

Trade Opportunities

Ray R. Hirt, state university college of forestry, Syracuse, N. Y., in speaking on "Opportunity in Arboriculture—Today and Tomorrow," reviewed the progress made in the field of plant care and stressed the importance of continued plant research.

Defining arboriculture as the scientific cultivation and care of woody plants, particularly those used for decorative, shade and ornamental purposes, Dr. Hirt said. "If we accept this definition, then we must also accept the fact that tomorrow's professional arborist no longer can be simply a tradesman or craftsman. He must have an educational background in the biological and related sciences, plus an extended period of apprenticeship. Not only is his educational background important, but properly directed experience in field methods is essential."

The arborist must continue to grow in knowledge and the public must continually be made aware that proper tree care requires the services of a highly qualified individual.

Arboriculture is approaching the status of a profession, Dr. Hirt said, and suggested the use of more professional terms in describing the various phases of arboricultural operations. "Why not insist on the terms 'wound dressing,' not tree paint, and 'corrective pruning,' not just pruning?" he asked. He said that these and similar expressions are more truly descriptive scientifically of the effects of the operations performed.

With respect to the opportunities for advancement of the young man entering arboriculture, Dr. Hirt reviewed the various classes of workers needed and mentioned the type of work performed by each class

BARTLETT SAWS

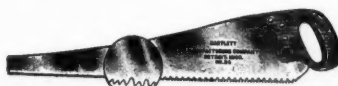
have been tested by time. Every saw guaranteed
No wonder enthusiastic users say they are

*"...Fast, easy cutting, easily
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No. 41 Tuttle Tooth

This popular saw is made in 20 and 24-inch lengths. Equipped with a special extra-large handle. Tuttle tooth design is excellent for large cuts.



No. 26 Tree Expert's

Two styles of teeth on same cutting edge. 10-inch section at point of blade has 6 points per inch. Balance of blade has large teeth similar to tuttle tooth.



No. 27 Tree Expert's

Widely used for many years by arborists, the No. 27 26-inch has 6 points per inch, beveled forward. Also made in 28-inch length known as our No. 28.



No. 170 Forester's

Extra-large peg teeth, 4 1/2 points per inch, and an unusually stiff blade make this 26-inch saw suitable for heavy cutting.

NOW AVAILABLE—An 8-page booklet titled "A Guide for the Care of Pruning Saws." Discusses jointing, setting and sharpening. Price 10c.



No. 1248 Special Utility

Our exclusive design provides big, husky cutting teeth with 4 points per inch. Fast cutting and easily sharpened. No. 1248 has 24-inch blade. If 26-inch blade is preferred, specify No. 1148D.



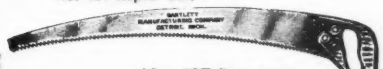
No. 1148 Special Utility

No. 1148 is 26 inches long and offers same exclusive design as No. 1248 except for handle. Fast cutting, easily sharpened.



No. 114 Rapid Cut

Similar to No. 1148 except that every third tooth is a well-formed raker. Gullets are especially deep to provide quick clearance. Also furnished in 24-inch length, known as No. 124 Rapid Cut.



No. 127 Paragon

A very popular all-purpose pruning saw No. 127 is available in 18, 22, 24 and 26-inch length. 6 points per inch.



Leather Saw Sheaths

As a safety and convenience factor for the operator, as well as protection for the saw. Leather Sheaths are available for all of our pruning saws.

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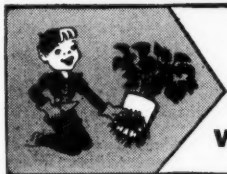
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- 1 Ask for a Free Demonstration.** Your dealer will gladly demonstrate the new 1961 Asplundh . . . will even run it side-by-side with any other chipper to let you compare machines and results.
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Chipping Speed. By actual test Asplundh is the fastest chipper made—which your dealer will gladly prove.
Low maintenance cost. The Asplundh has fewer moving parts. This means lower maintenance, less down time.
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Ease of operation. Unskilled labor can operate the Asplundh with ease—change blades quickly.
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- 3 See for yourself why Asplundh outsells all other makes.** Write for new brochure of testimonials from satisfied users.

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MIST PROPAGATION NOZZLE—finest ever developed — wide coverage — flat plane of mist. Spaced 3 ft. apart — drilled and tapped holes — 3/4-in., 1-in. or larger pipe. Sample postpaid \$1.00. Satisfaction guaranteed. Send for your sample today.

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from beginning laborer to trainee to the administrator and research scientist.

He said high-quality work should be demanded from all who engage in any phase of arboriculture and that salaries should be commensurate with the ability of the workmen and equivalent to salaries paid in other fields.

Homeowner Education Needed

Homeowners and the public generally must be convinced that arboricultural services are professional in character; that ornamental woody plants are valuable property assets, and that monies paid for tree services are a capital investment. When the public is aware of this, he said, it will be willing to pay a profitable charge for service.

"Tolerance of Trees to Soil Conditions" was the subject of a paper given by John C. Van Camp, Midwest Shade Tree Consultants, Rockford, Ill., in which the influence on tree growth of soil air, water and nutritional elements were discussed.

Saying that his remarks applied specifically to conditions in northern Illinois, Mr. Van Camp expressed his belief that soil air, rather than soil moisture, is the limiting factor in the growth of most street and shade trees.

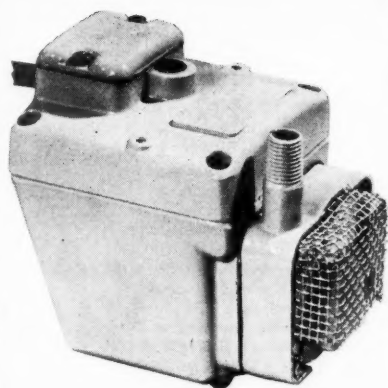
In support of this, he cited a case in which examination of the soil beneath the center of a wide, paved street revealed ample moisture, but no root growth from trees bordering the street. As another example of the importance of soil air, he mentioned soil compaction and soil fill as adversely affecting tree growth.

Tree species that are most tolerant of poor soil aeration, Mr. Van Camp said, include sycamore, pin oak, elm, soft maple, poplar, swamp white oak, red maple, birch and others normally found in low moist areas, while those least tolerant are white, red, bur, scarlet and chestnut oak; tulip poplar, and most evergreens. With respect to soil moisture content, he said, lowland tree species tolerate extremely wet as well as dry soils, but upland species, such as white oak, cannot tolerate wet soil conditions.

Fertilizer Caution

Commenting on soil fertility, he said excessive amounts of fertilizer applied to certain types of soils can be detrimental to trees, because of the artificially induced drought brought about by the high concentration of ions in the soil solution.

This does not minimize the need and importance of using fertilizer,



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but it serves to emphasize the need of considering such factors as soil conditions, timing and varying tolerances of tree species before application of fertilizer is made.

A break in the succession of technical discussions was provided in the showing of a series of color slides on "Trees and Gardens of Europe." The excellent slides included scenes of many famous gardens and historical areas in France and other European countries photographed by C. L. Wachtel, Wauwatosa, Wis., during his recent trip to Europe. Mr. Wachtel's comments concerning the spots visited and photographed added greatly to his presentation of the slides.

The formal papers on the Thursday morning program were devoted to a discussion of Dutch elm disease, and interest in this subject was amply indicated by the attendance of practically every registered delegate, representatives of the press and a number of guests.

"Dutch Elm Disease in Municipal Areas" was discussed by Dan Neely, associate plant pathologist, Illinois Natural History Survey, Urbana; "A Report on the Use of Methoxychlor" was given by Dale Norris, department of entomology, University of Wisconsin, Madison, and a discus-



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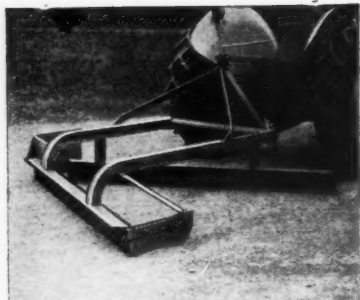
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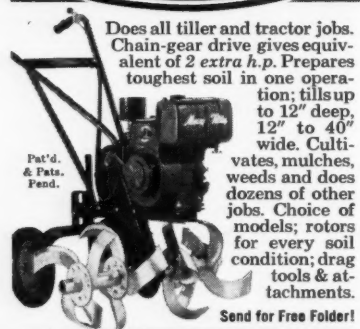
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sion on "Dutch Elm Disease Up to Date" was presented by J. C. Carter, head of the department of botany and plant pathology, Illinois Natural History Survey, Urbana.

Pointing out that presently in Illinois there is no regulatory agency of the state responsible for or assisting in the control of Dutch elm disease, Dr. Neely said numerous cities and communities are conducting control programs that are financed in each case by municipal funds. In northern and northeastern Illinois, he said, such programs are being conducted in 65 or more cities.

Control Practices

Briefly reviewing the disease control practices used, he said these include the prompt removal of diseased elms; pruning and burning of weak, dying or devitalized wood from healthy elm trees; destruction of cut elm branches or logs to eliminate suitable habitat conditions for the beetles that serve as carriers of the Dutch elm disease fungus, and an annual application of a suitable insecticidal material to protect healthy elms against the feeding activities of the disease-carrying beetles.

Of 51 cities reporting in response to a questionnaire sent out in 1960, Dr. Neely said, at least six over a 5-year period have held tree losses due to Dutch elm disease close to or below one half of 1 per cent of the original elm population present before Dutch elm disease was confirmed in the area.

In all cases in which approved control measures have been practiced, he said, the losses from Dutch elm disease have been extremely low in comparison to the losses suffered in communities where no control programs have been conducted.

Of the cities reporting on Dutch elm disease control programs in 1960, he said, 60 per cent had losses below 1 per cent of the elm population present at the beginning of the year, and more than 75 per cent of the cities had losses of less than 2 per cent.

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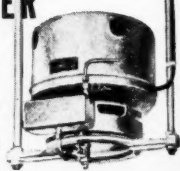
Commenting on the results obtained by sanitation alone, that is, the destruction of elm wood in which the disease-carrying beetles may live and breed, as compared with the effects of a combined program of sanitation and spraying, Dr. Neely said sanitation and spraying resulted in much better control of the disease.

He exhibited a chart based on statistics furnished by representative cities which indicated that the num-

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ber of cases of Dutch elm disease to be expected in areas where sanitation alone is practiced is two to six times greater than it is in communities where both sanitation and spraying are included in the control program.

In communities where no control measures are practiced, great losses of elm trees may be expected, Dr. Neely said, citing the experience of an Illinois city where 60 per cent of the elms present January 1, 1960, died from Dutch elm disease during the following summer.

In discussing the use of methoxychlor, Dr. Norris said experiments with this insecticide as a possible substitute for DDT were prompted by increasing opposition to the use of DDT sprays in Wisconsin, because of its toxicity to wildlife. The experiments, he emphasized, included only mist-blower applications of 12 per cent emulsion sprays during the spring dormant season, with no applications being made later than April 15.

Gives Satisfactory Results

Used at the rate of three gallons of spray mixture per tree in the 50 to 70-foot-height range and four gallons per tree for taller specimens, Dr. Norris said the applications gave practical control of beetle feeding in the experiments. The residual effectiveness of the methoxychlor spray has exceeded 100 days and the period of annual tree susceptibility to systemic fungus infection.

Remarking that research from various sources has reported methoxychlor as being from 12 to 34 times less toxic to robins than DDT, he said, "This large differential in toxicity to wildlife makes us confident that conscientious use of methoxychlor as recommended will not cause significant losses in associated wildlife."

Methoxychlor is still considerably higher in price than DDT, but there are indications that the price is likely to become lower. Dr. Norris added, "We are certainly not writing off DDT for Dutch elm disease control. We simply offer methoxychlor as an adequate alternative. We still believe that DDT is slightly more effective than methoxychlor and presently recommend only DDT for fall dormant application."

Dr. Carter briefly reviewed the history of Dutch elm disease in the United States, as well as diagnostic procedures, methods of control and research work presently being conducted. He emphasized that sanitation and spraying still constitute the best control measures known to date.

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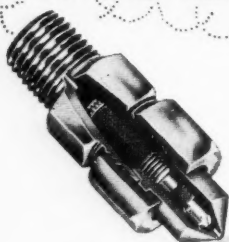
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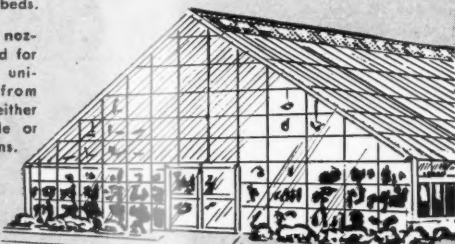
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and recommended for commercial use as a cure of Dutch elm disease, he warned, until extensive, reliable data have been obtained through properly controlled experimental tests to show that the material is effective.

Much of the present research, Dr. Carter said, deals with chemical materials, including systemic insecticides, fungicides, antibiotics and growth regulators which may be introduced into the tree. Some of the materials now being tested, he said, have delayed the appearance of typical leaf symptoms during an entire growing season, but none has been found yet that is satisfactory for commercial use.

Resistant Varieties Sought

Efforts are being made, he said, to develop elms through selection and propagation techniques which will be resistant or immune to the Dutch elm disease. He said that in Holland two selections of *Ulmus carpinifolia*, the Christine Buisman elm and the Bea Schwarz elm, have been obtained that are highly resistant to the disease. At present, he said, the Christine Buisman elm is available through commercial nurseries.

In his discussion of "Proper Use of Insecticides," Donald L. Schuder, department of entomology, Purdue University, Lafayette, Ind., described a number of insecticides currently in use, suggested safety measures which should be followed and offered suggestions as to application of insecticidal materials to secure satisfactory control of insects.

Among the newer, important insecticides, Dr. Schuder mentioned diazinon, dibrom, ethion, guthion, Trithion, Dimecron, dimethoate, Sevin, thiodan, Kelthane and Tedion. In the use and handling of these and other insecticides, Dr. Schuder warned that the following safety rules should be followed:

1. Consider all insecticides as poisonous and/or dangerous and handle them as such.

2. Store insecticides in a safe place where they cannot be mistaken for harmless products and where children or other irresponsible persons cannot get to them. A locked cabinet or closet is recommended.

3. Destroy empty containers and dispose of excess sprays and dusts in such manner that pets and persons cannot come in contact with them.

4. Stay out of spray drift, dusts and fumes and wash thoroughly after mixing or using insecticides.

5. Read the label on insecticide containers and follow directions. Federal law requires that adequate

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precautions be given for safe use of the product. Wear protective clothing and a respirator if the directions say so. Any insecticide can be used safely if handled according to directions.

6. Do not keep insecticides in unlabeled or unmarked containers.

7. Do not use stronger dilutions or greater quantities of an insecticide than the directions call for.

Stresses Adequate Coverage

To obtain satisfactory control of insects in the application of spray materials, Dr. Schuder advised that all parts of the plant, including trunk, branches and leaves, should be covered with the spray, and the material applied to the point of runoff. The application should be timed to coincide with the susceptible stage of the insect, and the spraying should be done at the time of day when there is little or no wind.

Dr. Schuder warned that some insecticidal materials are likely to be injurious to certain species of plants. DDT sprays used in control of Dutch elm disease, he said, have injured Amur River privet, Scotch elm, English elm, Japanese maple, full-moon maple, golden-rain tree, hickory, sugar maple, malus species, Chinese elm, mountain ash, bar-

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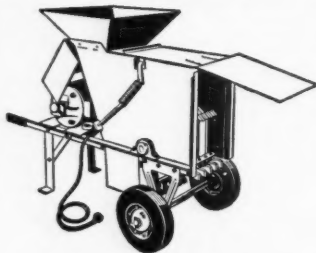
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berry, fragrant viburnums, Elberta peach and a number of flowering plants.

He listed malathion as having caused injury to Cannaert, Sargent and Burk junipers; Ilex rotunda; violets; petunias; red carnations, and several other flowers.

The Friday morning session was devoted to a panel discussion of various problems of concern to the commercial arborist. Alfred M. Perin, Des Moines, Ia., spoke on "Ethics and Public Relations"; R. G. Carmichael, Betendorf, Ia., discussed "Contract Problems and Salesmanship," and Robert Owens, credit manager of the Standard Oil Co., presented a paper on "Credits and Collections."

Lists Unethical Practices

In his discussion, Mr. Perin strongly advised ethical procedures in all contacts or dealings with clients and listed a number of acts which, he said, he regarded as being unethical and conducive to poor public relations.

This list included (1) submission to high-pressure clients; (2) adverse criticism of other tree service companies; (3) misrepresentation; (4) failure to follow recommendations of manufacturers in the use of their products; (5) failure to provide a client a correct diagnosis of his tree's ailment; (6) overcharging for services, and (7) failure to follow recommendations made by scientists at colleges, universities and similar reliable plant research agencies.

Mr. Carmichael presented considerable statistical data concerning the amount of contract work done by tree service companies and discussed the advantages and disadvantages of work done under contract and that performed on a time and material basis.

It is most important, he said, that there should be a clear understanding between the salesman of tree service and the client as to the work to be performed and the basis of the charge.

Stressing the importance of using qualified workmen, Mr. Carmichael said that after completing the sale one must assign trained men to do the job as outlined. The best-sold job in the world can be unsold in 10 minutes by an incompetent man.

In speaking of credits and collections, Mr. Owens said credit must be viewed as an important sales tool and one that can contribute substantially to the success of a business if properly handled.

He noted that customers often

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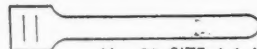
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choose a supplier solely because he allows a longer time to settle accounts than his competitors. This means, Mr. Owens said, that it is necessary to meet competitive practices in credit extension, but it is not necessary to go beyond one's competitors in this area. It is important to have definite terms of sale and to have a firm understanding with the customer as to when payment is to be expected.

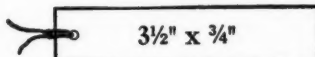
Mr. Owens advised that the supplier should know his client as to financial responsibility before extending him credit and suggested checking with the bank, other suppliers, credit bureaus and similar sources for such information. He pointed out that to carry a slow account costs money; at current rates of interest, he said, a 6-month account costs 3 per cent—a considerable chunk out of profits.

With respect to maintaining good customer relations, Mr. Owens said the manner of handling telephone calls and correspondence and promptness in replying to inquiries or complaints are important in retaining accounts.

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PENNSYLVANIA CONFERENCE

[Continued from page 9]

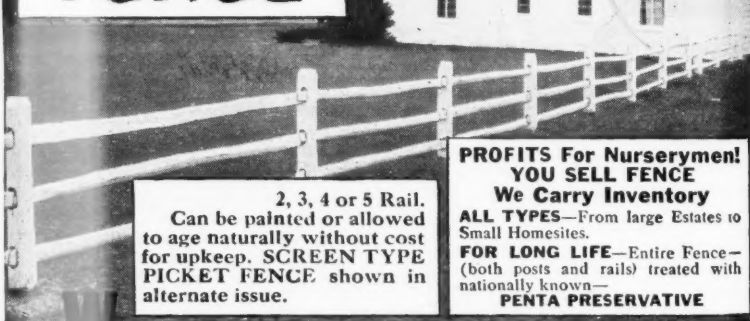
may be available at more favorable prices. One's own label can be placed on products of private manufacture.

Louis Rave recommended the carrying of quality plants only, which, with proper and better handling, can be used to extend the season. Bedding plants can be sold until mid-July. Herbaceous perennials can be used all season, from early spring until fall. At Rave's Garden Center, large pots are used to allow full root spread and to hold plants in good condition longer. All plants are liquid fed, watered and sprayed regularly. This is one way to meet chain store competition, since few, if any, of these outlets carry on a good maintenance program.

The Raves have experienced a steady increase in sales, with such items as potted roses increasing 20 times over the volume of five years ago. Top-quality plants are used throughout. Rose plants are potted in February and covered with straw or salt hay until new growth begins. The mulch is removed in early April and liquid feeding, spraying and watering are begun. Canned narrow-leaved evergreens have not proved satisfactory, but potted hollies and other broad-leaved evergreens have done well.

Mr. Rave believes one should buy from the best sources. These will continue to supply their customers when items are scarce and may replace stock if an unavoidable loss occurs. If a guarantee policy is established, it must be maintained. He

English Type RAIL and HURDLE FENCE



2, 3, 4 or 5 Rail.
Can be painted or allowed
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FOR LONG LIFE—Entire Fence—
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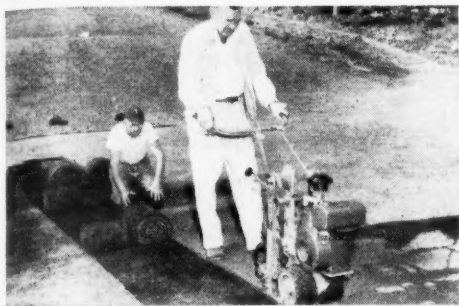
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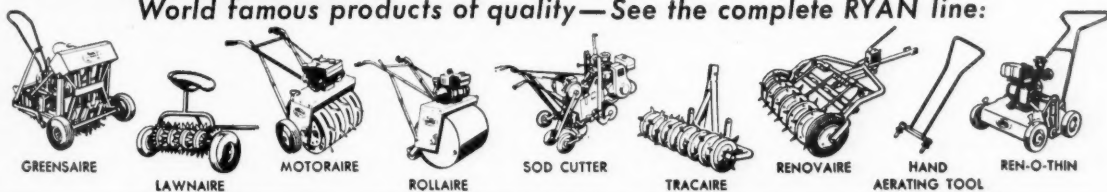
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favors a full replacement policy, since he feels most people are honest and will try to make the plants grow.

Research Reports

"Research in Ornamental Horticulture at Penn State" was discussed by various members of the department of horticulture. R. P. Meahl, professor of ornamental horticulture, reported on rooting responses of cuttings of *Prunus subhirtella pendula* and *Malus purpurea eleyi*.

Cuttings were taken at various times during the growing season and treated with indolebutyric acid (IBA) in talc form and as a quick dip. Generally, a quick dip solution of IBA of 0.8 per cent produced higher rooting percentages than Hormodin No. 3 (0.8 per cent IBA in talc) and was also more effective than 2, 3 or 4 per cent IBA solutions. This was true for both the *Prunus* and the *Malus*, regardless of the time cuttings were taken, from late May through mid-July.

Fred O. Lanphear, graduate assistant, told of the growth response of rooted cuttings that were subjected to different day lengths during rooting. In one experiment, cuttings of *Ilex crenata convexa* and *Pieris japonica* were taken in No-



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\$2.95 each One dozen, **\$2.36 each**. Postpaid with check or money order. Guaranteed. 3% tax in Florida.

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New **MAGIC CIRCLE Rabbit Repellent**

PROTECTS valuable plantings!
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EFFECTIVE! One spraying can chase rabbits for several months.
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WATERPROOF TREE AND PLANT LABELS

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ember and subjected to four day lengths, short day (nine hours), normal day, long day (18 hours), and interrupted light (normal day plus three hours of light during the night). Photoperiod treatments were stopped in June. Growth of the cuttings rooted under long days and uninterrupted light was greater than that of the cuttings rooted under normal and short days by June, and the difference continued throughout the growing season.

Cuttings taken in January gave a different response. Here, too, the photoperiod treatments were terminated in June, at which time there was little difference in the growth of the test cuttings, except that those rooted under the short days showed considerably less growth than the others.

However, by August, the short-day plants had caught up with the others, and all were approximately the same size. Cuttings taken in November and rooted under long days made larger plants than any of the other test cuttings, indicating that under some conditions photoperiod treatments may be practical in speeding up growth.

Holly Nutrition Study

James E. Brewer, instructor in ornamental horticulture, explained his nutrition studies on ilex, in which various levels of nitrogen, phosphorus and potash were combined, based upon optimum levels of each element as determined from previous tests. At the present time the ratio of 2-2-1 is giving the best growth with Ilex crenata Green Island. Nitrogen seems to be the most important of the three elements in securing good growth. These experiments are being conducted under controlled conditions in the greenhouse, but the results obtained will be related to tests under field conditions, so that grower recommendations can be made.

Weed control experiments were described by Chiko Haramaki, assistant professor of ornamental horticulture. Five chemicals were tested in these experiments to determine their weed control qualities and their toxicity to plants set out in the test plots at various intervals after treatment. The chemicals were Vapam, EPTC (Eptam), Mylone, Niagara 5996 and ED 161. Petunia plants were set out one, two, four and seven days and two, three and four weeks after treatment.

The best results were obtained with EPTC, which gave excellent weed control and very little plant injury, even on those set out one or

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Roots screened out
You get the best part — the Peat Flakes!

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5000	4.00	5.40
10,000	3.25	4.75
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Better roots—Healthier plants
Immediate action as a foliar spray.
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This 3-in-1 combination removes stones, roots, debris . . . spreads topsoil, base material . . . grades, levels, pulverizes, mulches . . . ditches, terraces, backfills. Attaches to 3-point hitch tractors.



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two days after treatment. There was complete recovery of those plants slightly injured. Niagara 5996 also gave good weed control and little plant damage. The other materials were not satisfactory in these tests, either failing to give good weed control or causing plant damage.

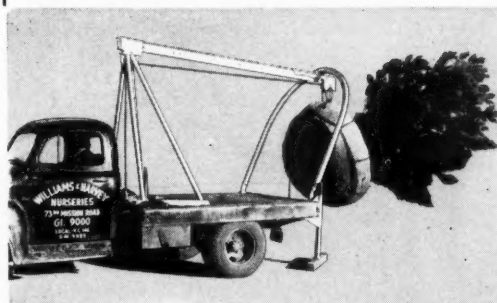
The Tuesday evening session was highly stimulating, with a discussion on "Techniques in Successful Nursery Business Management" led by Louis E. Wissenbach, Squirrel Hill Nursery, Pittsburgh, Pa., and Jesse R. S. Flory, LaBars' Rhododendron Nursery, Stroudsburg, Pa.

Records Should Be Simple

Some of Mr. Wissenbach's specific recommendations were to keep records, but to keep them as simple as possible. Among the essentials he noted were time cards, sales slips and a customers' ledger. Nothing should leave the nursery without a charge being made. Cost records of each contract should be kept. It is not so important what type of system is used, as long as it does the job.

One should be careful to whom he extends credit, since he is, in effect, lending money to the credit buyer. Banks will often furnish businessmen with credit references. It is

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Leading nurseries, tree surgeons and park departments in all parts of the U. S. are using this new, improved mover. See it! Write us for addresses of users near you.

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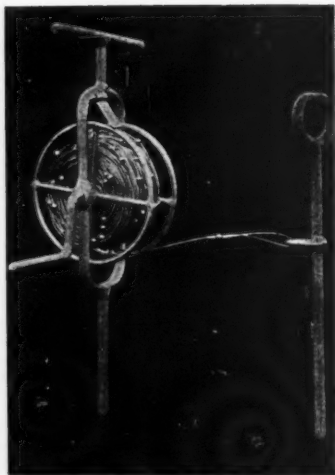
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also important to watch one's own credit and to build a good credit rating by paying bills when due. If one finds he cannot pay a bill, he should pay as much as possible and talk to his creditor to explain the reason for the delay. Most creditors will be understanding if honest attempts to pay are assured.

Prices must be set to allow a profit. It is difficult to arrive at an adequate but not exorbitant price. Adhering to a more or less standard markup of 100 to 125 per cent of cost is not the best way. Many plants could and should be sold for three to six times their cost. Odd-cent pricing and multiple pricing (\$1.92 each, three for \$5) are both advantageous.

One should never apologize for the price, because it gives the customer the impression that the article is not worth what is asked. In bidding on a job, the important consideration is not underbidding competitors but arriving at a fair price which will yield a profit and allow doing a good job.

Labor costs should be considered carefully, cautioned Mr. Wissenbach. Some may feel that a charge of 50 cents more than the rate paid for the worker is 50 cents of profit. This is not true, for there are many hidden costs.

For example, if the labor rate is \$1.50 per hour, the additional costs against labor are 1.5 cents, workmen's compensation; 6 cents, unemployment insurance; 1.5 cents, contractor's liability; 4.5 cents, social security; 2.5 cents, paid yearly holidays; 3 cents, lost time (2 to 5 per cent), and 3 cents, vacation. These bring the cost of labor to \$1.72, and overhead adds another 18 to 24 per cent. It is easy to see that one is losing money if he charges \$2 per hour for this labor. A beginning nurseryman can get help on cost figures from such books as John Surtee's "Nursery Cost Finding."

Local papers are probably the best advertising medium for the small nurseryman. The advertisements should be inserted regularly through the year. Regular small ads are better than a few large ones appearing infrequently.

Direct mail is also a good method for small operators. However, one should make up his own mailing list rather than purchase one. This can be done by starting with persons one knows and by driving about one's area and noting the addresses of promising-looking properties. Another idea is for three or four firms in the same general business to join

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Green's Tractor Hoe will save you time and money. One man can do the work of many. Fits most makes of tractors.

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TEMPERATURE ALARM

- Battery-operated, maximum-minimum type with lock.
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**UNEXCELLED FOR
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18¢ PER POUND

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IN 300 LB. LOTS
LESS THAN 300 LBS.
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Sterling Junction, Mass. Phone: GARfield 2-8688

in a co-operative advertising venture. By pooling their advertising they can purchase larger ads and cover more area.

Mr. Flory, outlining the method of handling orders at LaBars' Rhododendron Nursery, stated that one should make a specific appointment with a prospective landscape customer. If he finds he cannot keep the appointment, he should call to set another time.

After the preliminary discussion, the property should be measured and sketched roughly on graph paper. If pictures can be taken, they will be of great help. Plans may be drawn on heavy tracing paper from which prints can be made. Colored paper can be used for the prints, with the building in black and the plants in color.

According to LaBars' procedure, after the plan is drawn, an estimate is made. The name, size and quantity of the plants are listed. Three copies of the estimate are made, one for the customer, one for the foreman and one for the files. The customer is contacted personally, if possible; otherwise, the plan and estimate are mailed.

Six copies of the order are made, each a different color, with the clear indication that it is not an invoice. The six copies are distributed as follows: One to the customer, one to the file, one to the landscape foreman, two to the digging foreman and one to the safe. As soon as the order is given, the job is scheduled.

The customer is notified when the work is to begin. By calling, one can find out if it will be satisfactory to start as planned. Before work starts, the foreman is introduced to the customer. He represents the company and is responsible. If questions arise he takes care of them. He serves as salesman on the job. The foreman is supplied with time sheets to record the data relating to the work.

Bills are prepared as soon as possible, within one or two days after the job is completed, when it is fresh in the minds of everyone concerned. A delay can cause confusion. Early billing gets the bill to the customer while he is still enjoying the first flush of the beauty of the planting.

This discussion concluded the first day's program. Sessions held Wednesday and Thursday, February 22 and 23, will be reported in the next issue.

PETER CASCIO, nurseryman at West Hartford, Conn., has been re-elected chairman of the national resources council of Connecticut.

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BAGS: BULK PACKED
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**PLASTIC
PACKAGES**

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Also European Peat Moss
10½, 7½, 6, 4½ cu. ft. compressed bales
Any combination shipped in one carload

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NEW NO-MIX WEED KILLER FEATURED ON NETWORK TV *at the peak of the selling season!*



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"EVEREADY"
NO-MIX LAWN WEED KILLER

Ideal for spot treatment! No mixing! No measuring!

any customer who's had the messy job of mixing weed killer will go for this ready-to-use spot lawn weed killer! Nothing could be easier—just aim the can and squeeze to kill the most common lawn weeds, such as dandelion, poison ivy, poison oak, chickweed, ragweed, brambles, golden rod and

thistles. Made with highest-quality chemicals—contains 2, 4-D and 2, 4, 5-T. No mix, no mess. If you want big profits plus satisfied customers, you want "Eveready" No-Mix Lawn Weed Killer! Big TV campaign creates big demand! Cash in! Order today!



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1 Assortment No. GP-60 (containing 36-No. NM-326 pints and 24-No. NM-322 quarts). Floorstand at no charge.

Total List Price \$47.64

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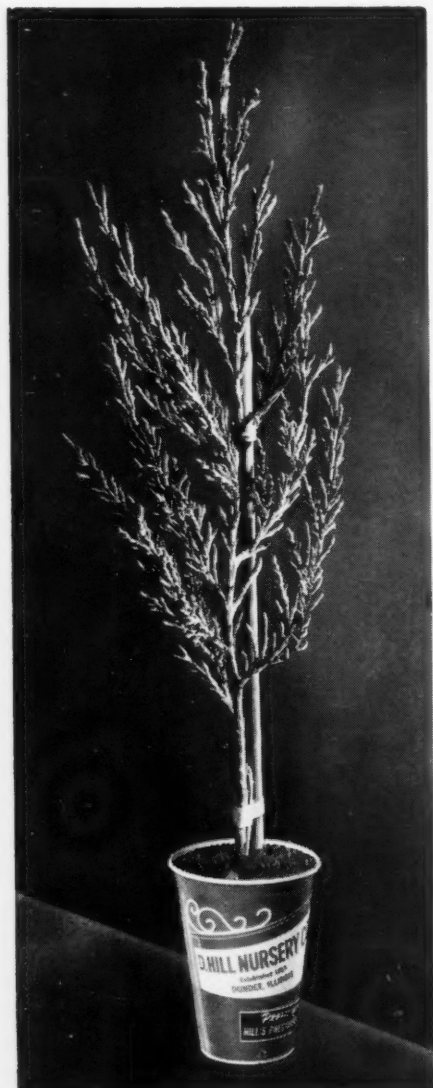
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Nurserymen everywhere give testimony to higher yields . . . which means more plants to sell and more profit . . . when they use top quality D. HILL'S PRE-STAKED JUNIPER GRAFTS. Pre-staking provides protection against damage in shipment . . . cuts down breakage when lining out mechanically . . . eliminates expensive field labor to tie and stake.

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55¢ each per 1000

65¢ each per 100

MULTIPLES OF 25 PER VARIETY

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